DRYPIX 7000

SERVICE MANUAL

REMOVAL AND ADJUSTMENT (MC)

CONTROL SHEET

Issue Date	Revision Number	Reason	Pages Affected
10/15/2002	00	New release (FM3343)	All pages
11/10/2002	01	Revised (FM3601)	1, 3-11, 13-17, 20, 22, 23, 26, 27, 33-39, 44, 46-149
04/01/2003	02	Revised (FM3978)	1, 10, 11, 15, 16, 22, 23, 28, 31, 35, 37, 44, 54-57, 60, 75-77, 90-94, 107-109, 118, 120, 135, 141-149

PRECAUTIONS ON INSPECTIONS, REPLACEMENTS, AND ADJUSTMENTS

This chapter does not describe parts which require no special note or adjustments in removal and installation.
For details on the removal of these parts, refer to the Parts List.
Also follow the precautions below when performing inspections, replacements, and adjustments of parts.

WARNING

To prevent electrical shocks, be sure to turn OFF the power of this equipment before starting work.

WARNING/CAUTION

Observe the warnings and cautions described in "SAFETY PRECAUTION".

CAUTION

Be sure to wear a wristband for grounding when performing maintenance of boards and optical units. Otherwise static electricity in the body may cause damage to electronic parts on the boards and optical units.

CAUTION

Never remove the screws painted in red.

<INSTRUCTIONS>

The screws painted in yellow must be adjusted after the installation of parts.
When installing parts, follow the check/adjustment procedure provided.

<NOTE>

When removing the covers, insert shutter into the film tray to prevent exposure of film to light.

The diagrams in this manual displays the **CHECK** and **FIT ON** icons where necessary. When removing/reinstalling, following these icons.

- **CHECK** icon:

When reinstalling removed parts, this is indicated if reinstalling positions must be checked or adjusted.
This symbol is shown inside illustrations of parts removal procedures. Whenever this is shown, be sure to refer to "■ **CHECK/ Adjusting procedure**".

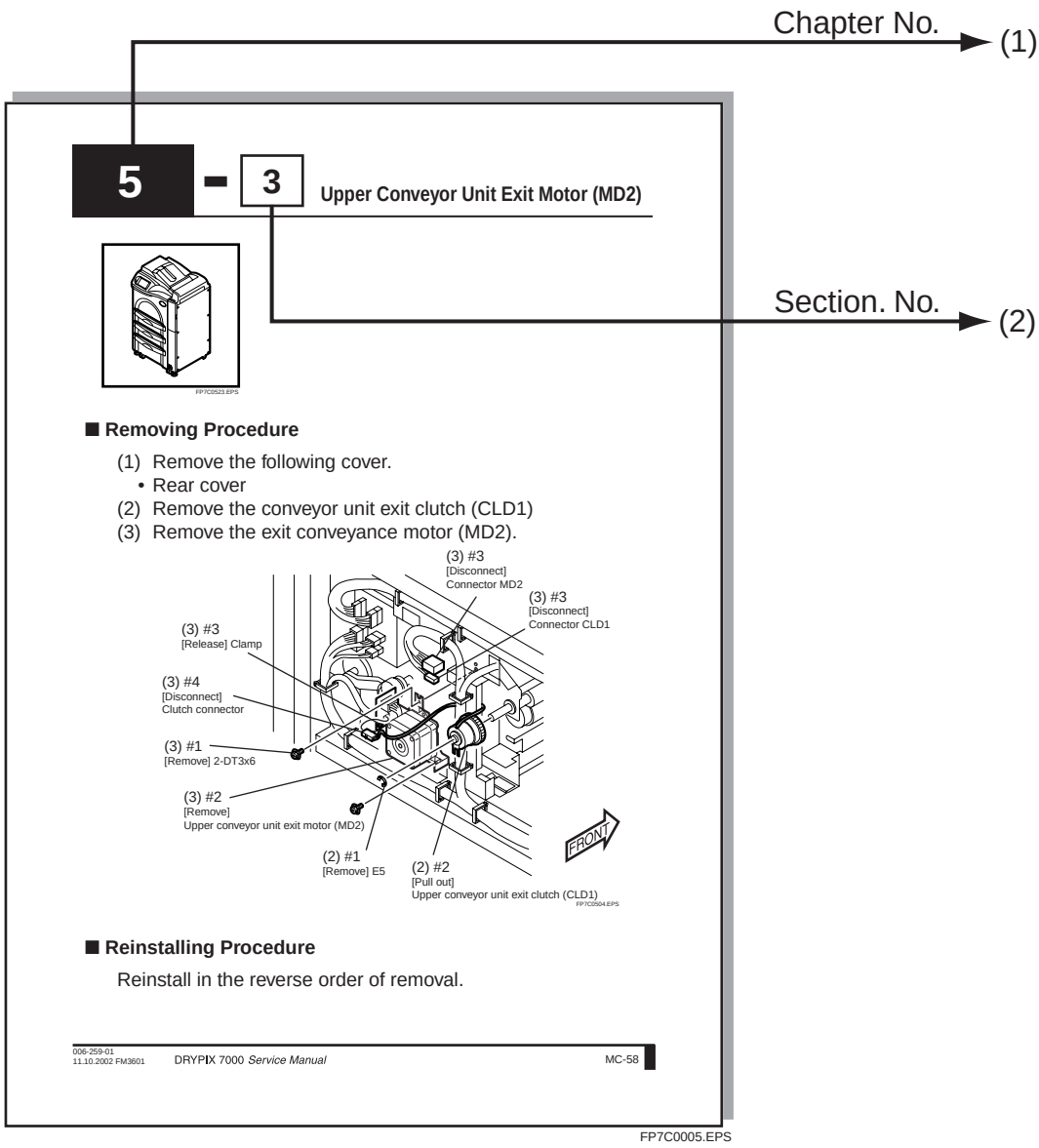
- **FIT ON** icon:

When installing parts, this is indicated if alignment to the boss is required.

HOW TO READ REMOVAL AND ADJUSTMENT VOLUME

The REMOVAL AND ADJUSTMENT (MC) Volume is constructed in such a way that it can be referred together with the SERVICE PARTS LIST (SP) Volume.
The following describes how to refer to this REMOVAL AND ADJUSTMENT (MC) Volume.

■ Example (REMOVAL AND ADJUSTMENT Volume)


Chapter No.
(1)
5 – 3 Upper Conveyor Unit Exit Motor (MD2)
Section. No.
(2)
FP7C0523.EPS
■ Removing Procedure
(1) Remove the following cover.
• Rear cover
(2) Remove the conveyor unit exit clutch (CLD1)
(3) Remove the exit conveyance motor (MD2).
(3) #3 [Disconnect] Connector MD2
(3) #3 [Disconnect] Connector CLD1
(3) #3 [Release] Clamp
(3) #4 [Disconnect] Clutch connector
(3) #1 [Remove] 2-DT3x6
(3) #2 [Remove] Upper conveyor unit exit motor (MD2)
(2) #1 [Remove] E5
(2) #2 [Pull out] Upper conveyor unit exit clutch (CLD1)
FRONT
FP7C0504.EPS
■ Reinstalling Procedure
Reinstall in the reverse order of removal.
006-259-01 11.10.2002 FM3601
DRYPIX 7000 Service Manual
MC-58

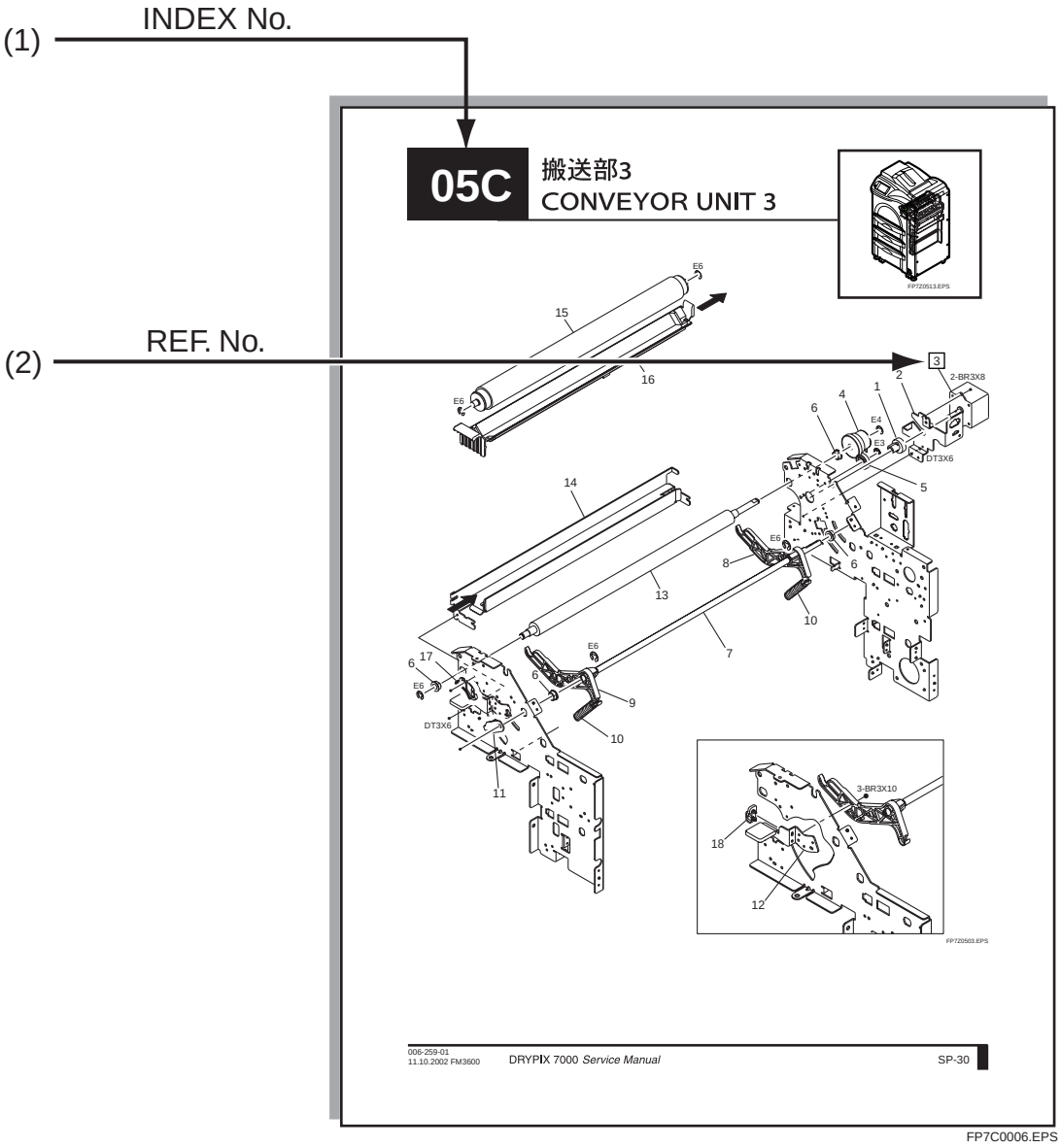
FP7C0005.EPS

(1) Chapter No. .. The Chapter No. in the REMOVAL AND ADJUSTMENT Volume is related to the INDEX No. of the SERVICE PARTS LIST Volume.

(2) Section No. ... The Section No. in the REMOVAL AND ADJUSTMENT Volume indicates enclosed REF. No. (example 3) in the SERVICE PARTS LIST Volume (exploded view).

For the above example, the item to be referred for “MC **5** – 3 Upper Conveyor Unit Exit Motor (MD2)” is “SP **05C** – 3 ”.

■ Example (SERVICE PARTS LIST Volume)



To refer to the service parts information on “MC **5** – 3 Upper Conveyor Unit Exit Motor (MD2)”, refer to “SP **05C** – 3 ”.

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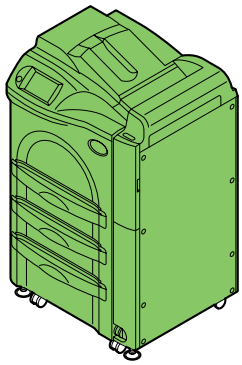
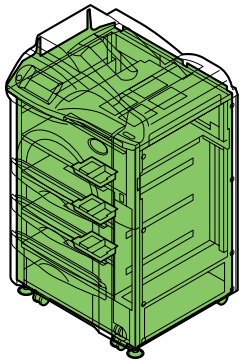
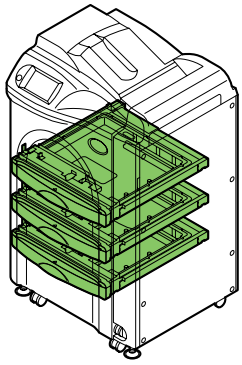
1. COVERS 	1.1 Covers	MC-10
2. FRAME 	2.1 BCR Assembly	MC-12
3. TRAY LOADING UNIT 	3.1 Tray Loading Unit	MC-14
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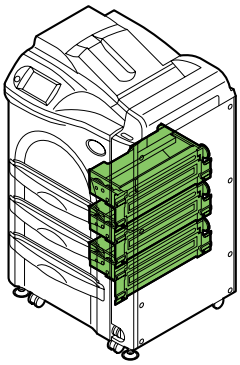
4. REMOVAL UNIT		4.1 Removal Unit	MC-36
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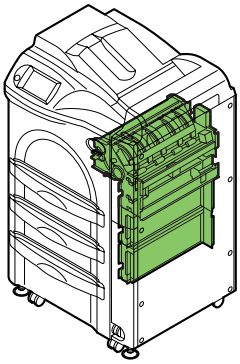
5. CONVEYOR UNIT		5.1 Upper Conveyor Unit	MC-52
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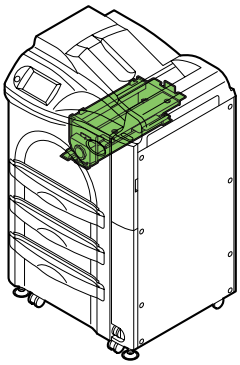
6. SUB-SCANNING UNIT		6.1 Sub-Scanning Unit	MC-82
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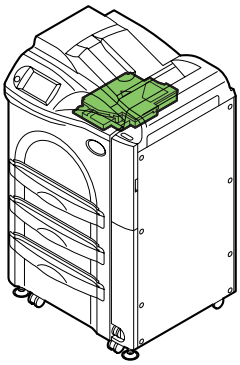
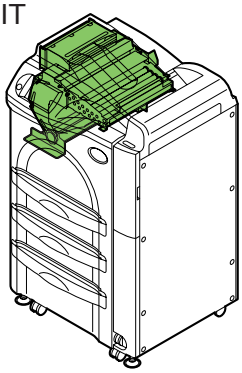
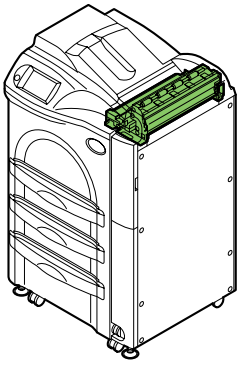
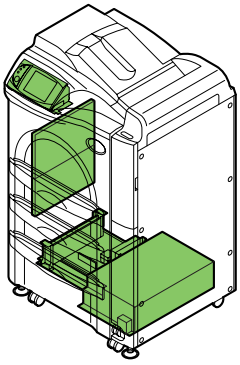
7. SCANNING OPTICS UNIT 	7.1 Scanner Unit	MC-104
8. HEAT DEVELOPMENT UNIT 	8.1 Cooling Fan Assembly 8.2 Filter Section Cooling Fan 8.3 Film Cooling Section 8.4 Heat Development Unit 8.5 Heat Development Rack Assembly 8.6 Heat Development Roller	MC-110 MC-112 MC-114 MC-116 MC-118 MC-122
9. FILM RELEASE UNIT 	9.1 Film Release Unit 9.2 Density Measurement Light-Emitting Board (LED15A)	MC-124 MC-126
10. CONTROLLER 	10.1 Operation Panel 10.2 Controller Assembly 10.3 HDD 10.4 PC Board 10.5 MCT Board	MC-128 MC-130 MC-132 MC-134 MC-135

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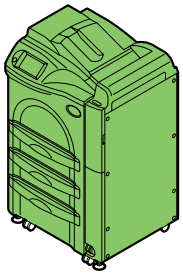
1 COVERS



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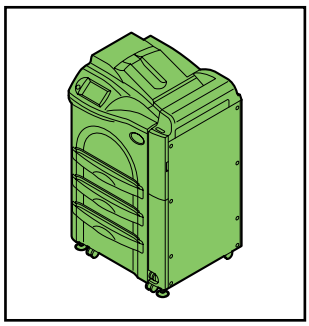
1 - 1 Covers



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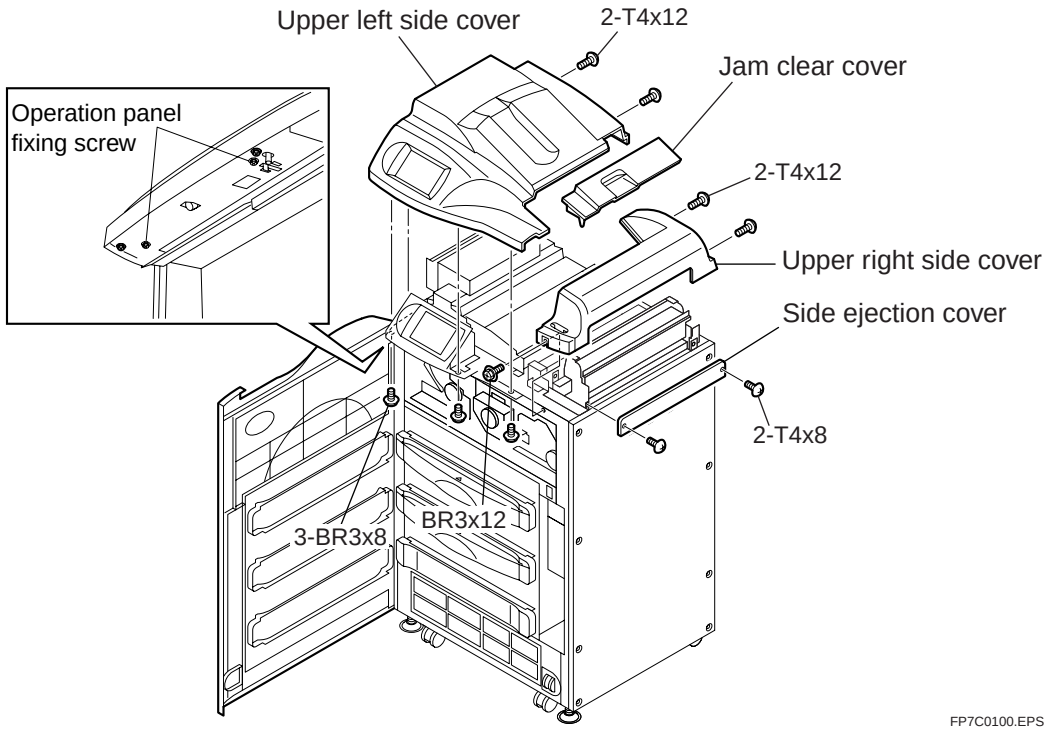
■ Removing Procedure

(1) Remove the following covers.

- Jam clear cover
- Upper left side cover
- Upper right side cover
- Side ejection cover



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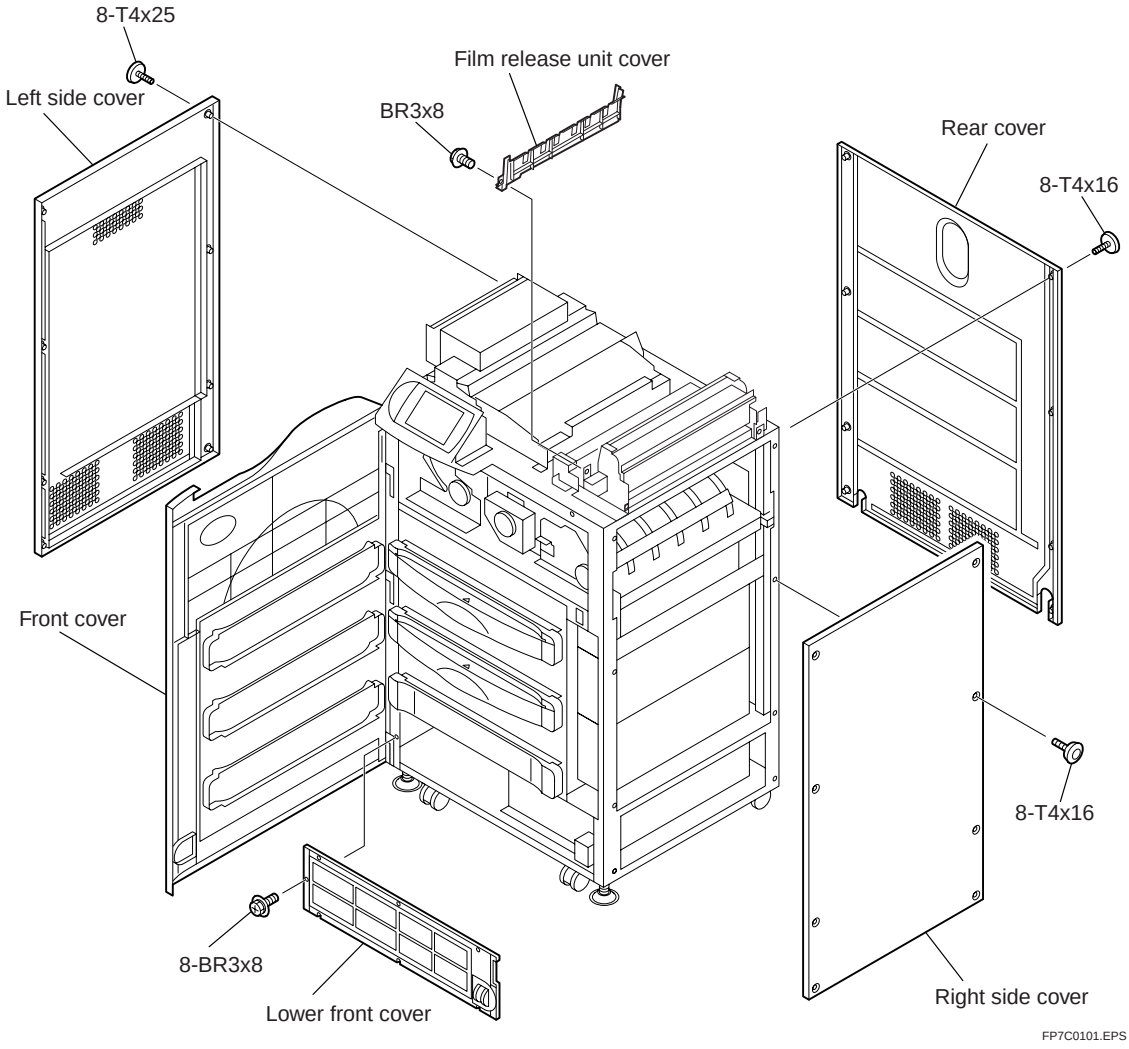
(2) Remove the following covers.

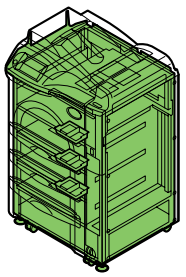
- Film release unit cover
- Right side cover
- Left side cover
- Rear cover
- Lower front cover



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

2 FRAME



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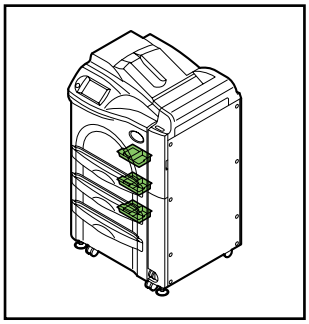
2 - 1 BCR Assembly



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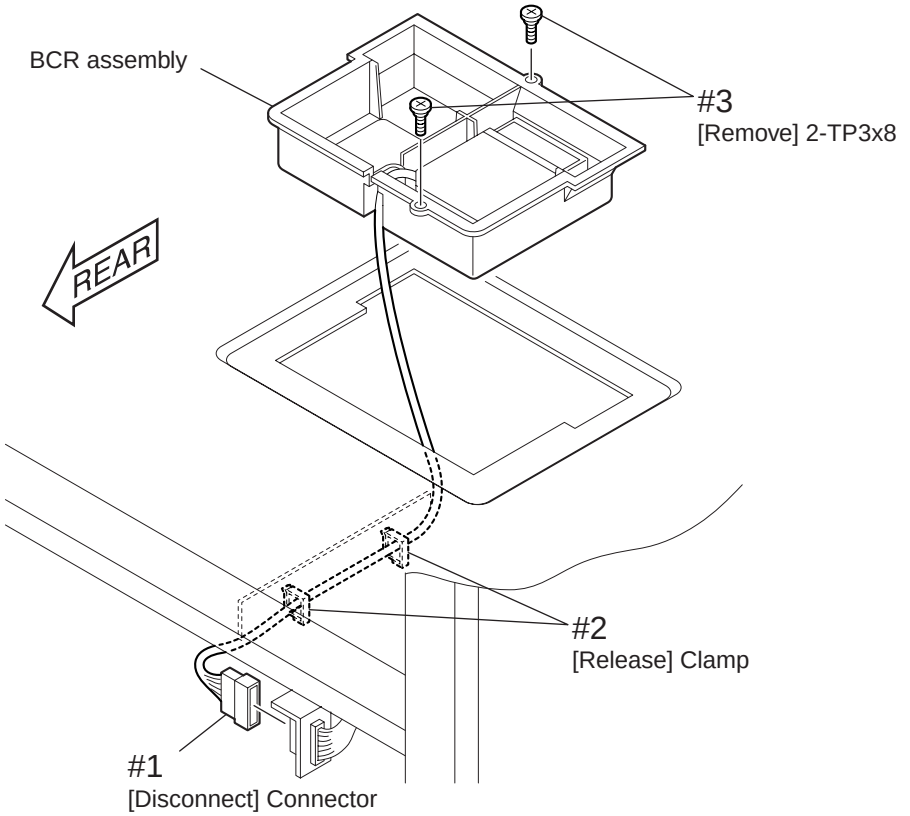
■ Removing Procedure

(1) Remove the following cover.
- Rear cover

(2) Remove the trays

☞ “3.2 Tray”

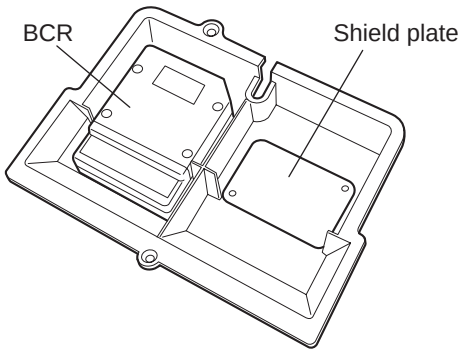
(3) Remove the BCR assembly.



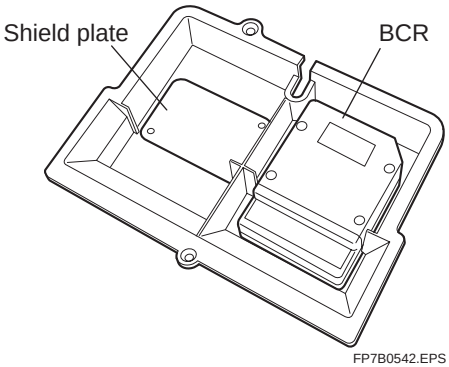
<REMARKS>

Attaching position of the BCR

35 x 43 cm size



26 x 36/20 x 25 cm size



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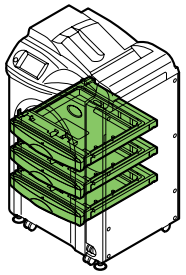
■ Reinstalling Procedure

Reinstall in the reverse order of removal.

3 TRAY LOADING UNIT



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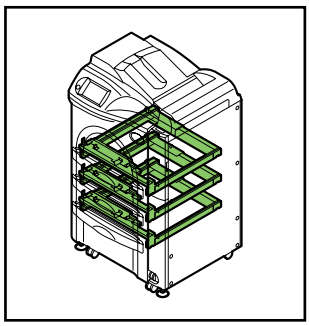
3 - 1 Tray Loading Unit



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<NOTE>

The following describes the procedure for the upper tray loading unit. Perform the same procedure for the middle and lower tray loading units. Steps that differ between the three units are indicated separately.

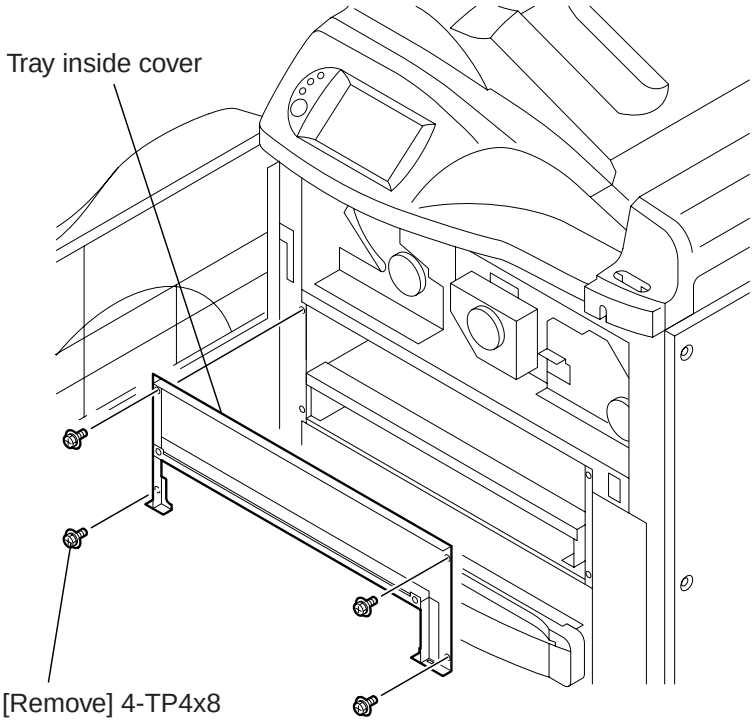
■ Removing Procedure

(1) Remove the following covers.
- Rear cover

(2) Remove the trays.

☞ "3.2 Tray"

(3) Remove the tray inside cover.



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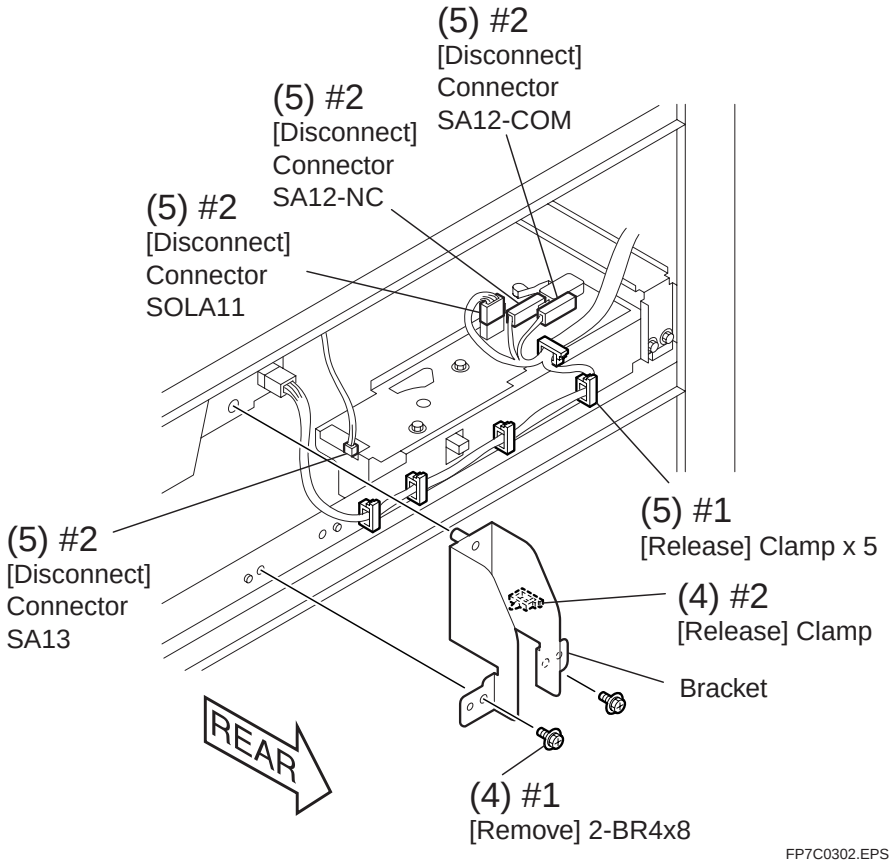
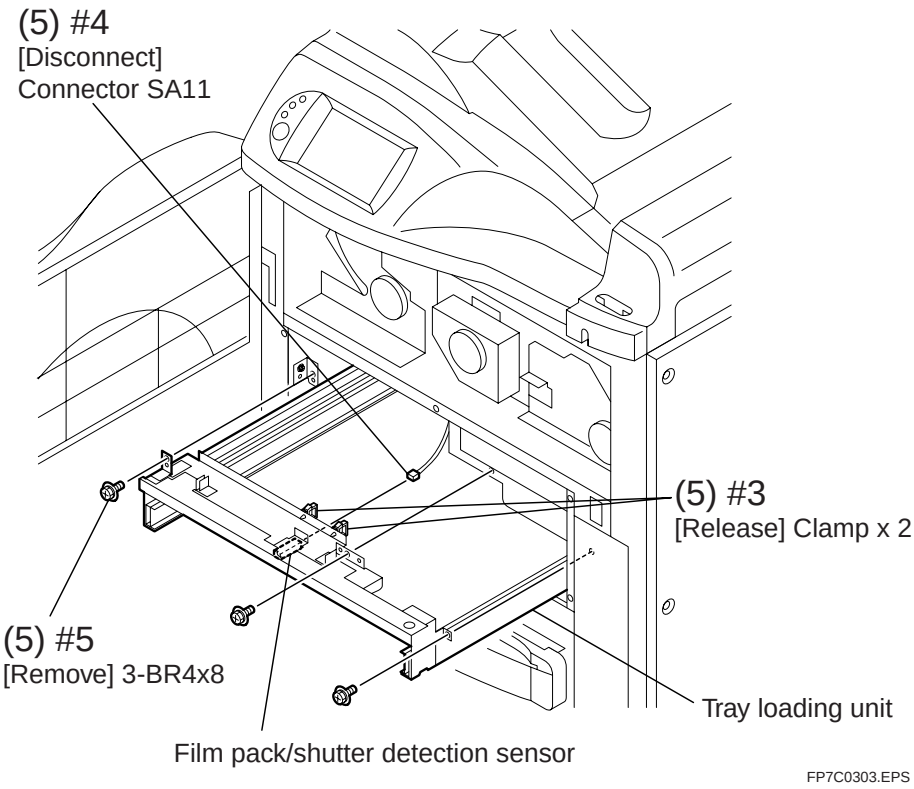
(4) Remove the bracket.

(5) Remove the tray loading unit.



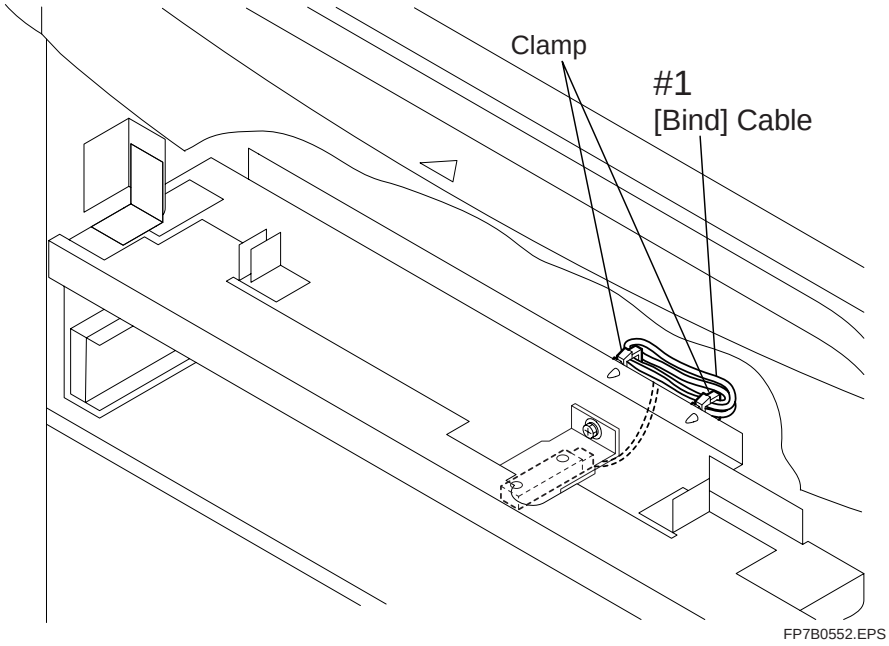


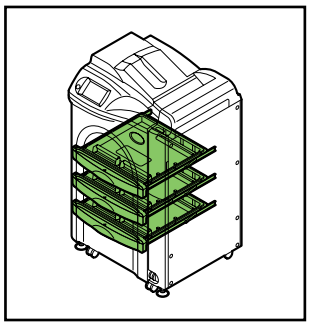
■ Reinstalling Procedure

Reinstall in the reverse order of removal.

<INSTRUCTIONS>

Bind the extra length of the cable so that it does not come out of the tray insertion portion.





FP7C0323.EPS

■ Removing Procedure

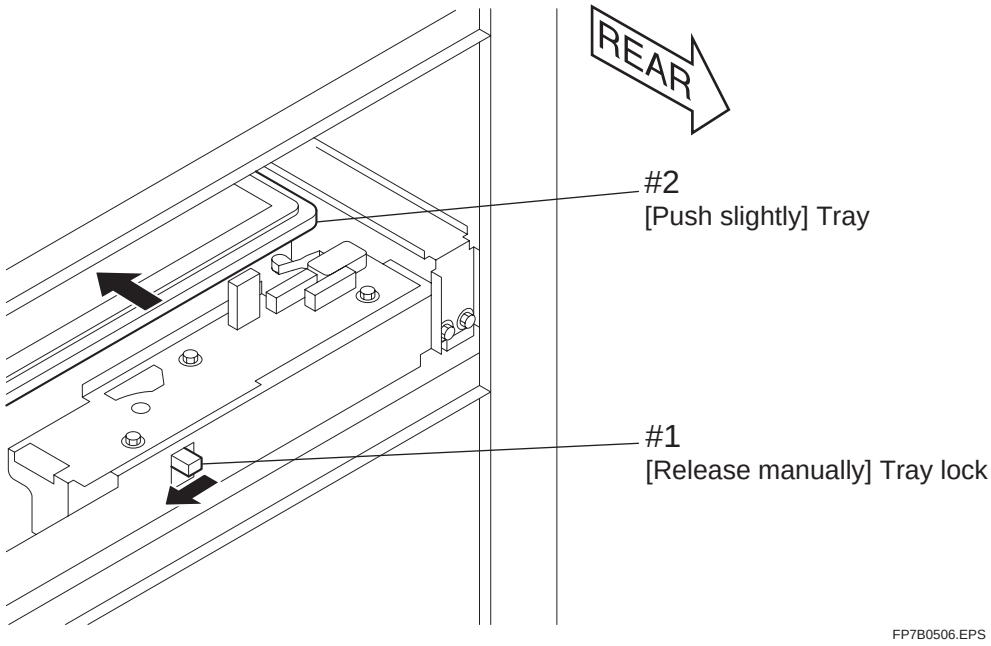
(1) Remove the following cover.

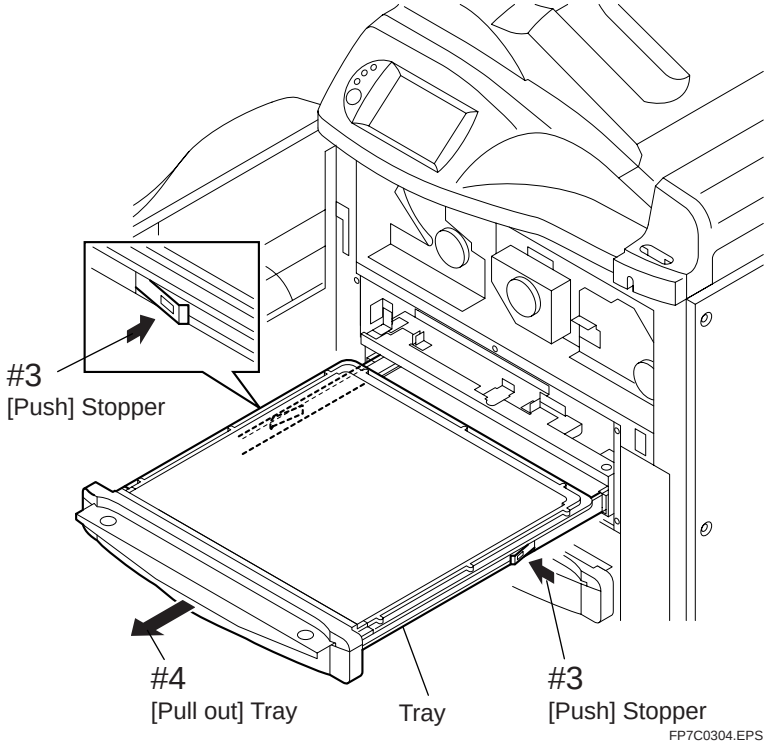
- Rear cover

<NOTE>

When pulling out the tray from the equipment, insert shutter in the tray to prevent exposure of film to light.

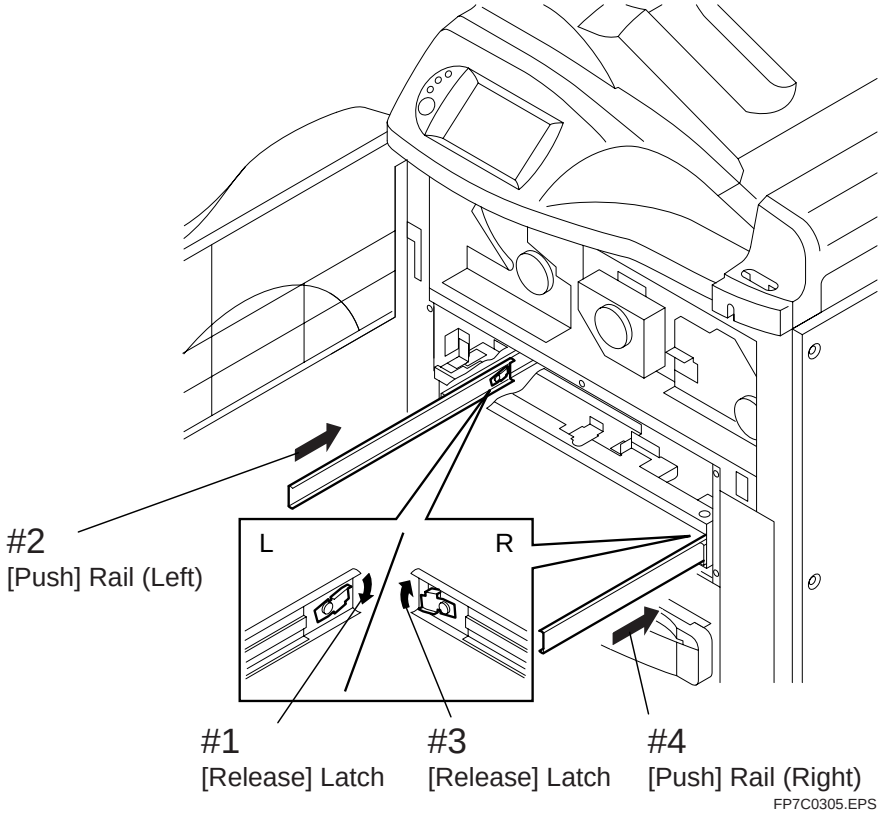
(2) Remove the tray.





CAUTION

After removing the tray, return the rail back into the equipment as it will come in the way of the job and is also dangerous.



■ Reinstalling Procedure

Reinstall in the reverse order of removal.
However, there is no need to pull out the rail pushed into the equipment.

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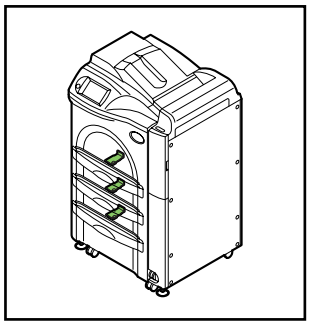
3 - 3 Film Pack/Shutter Detection Sensor (SA11, SA21, SA31)



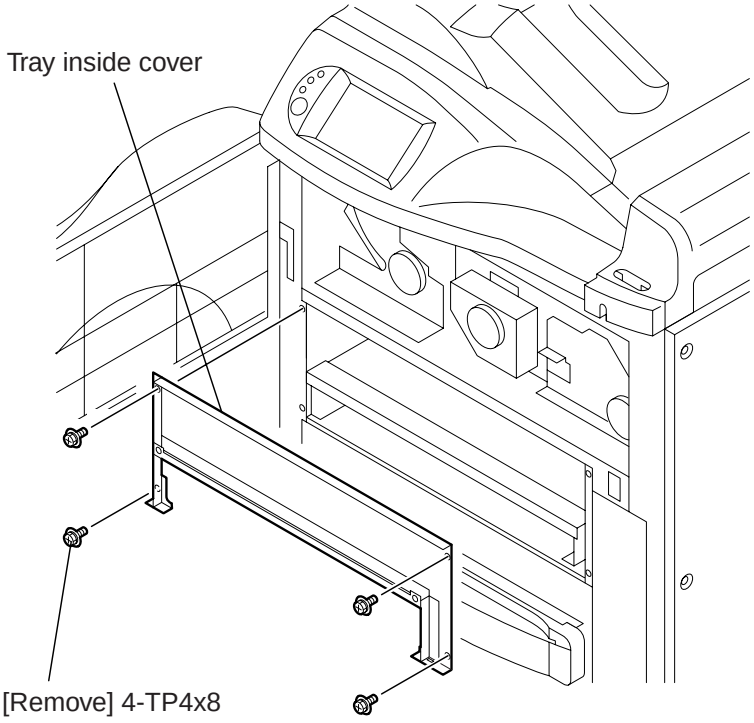
FP7C0324.EPS

■ Removing Procedure

(1) Remove the tray.

☞ "3.2 Tray"

(2) Remove the tray inside cover.



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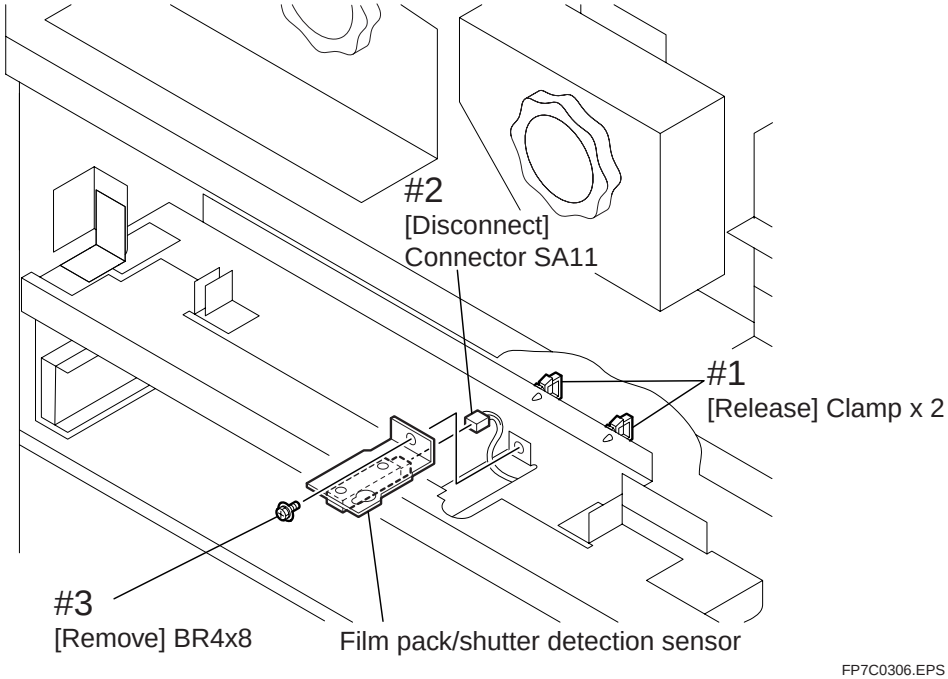
(3) Remove the film pack/shutter detection sensor (SA11, SA21, SA31).

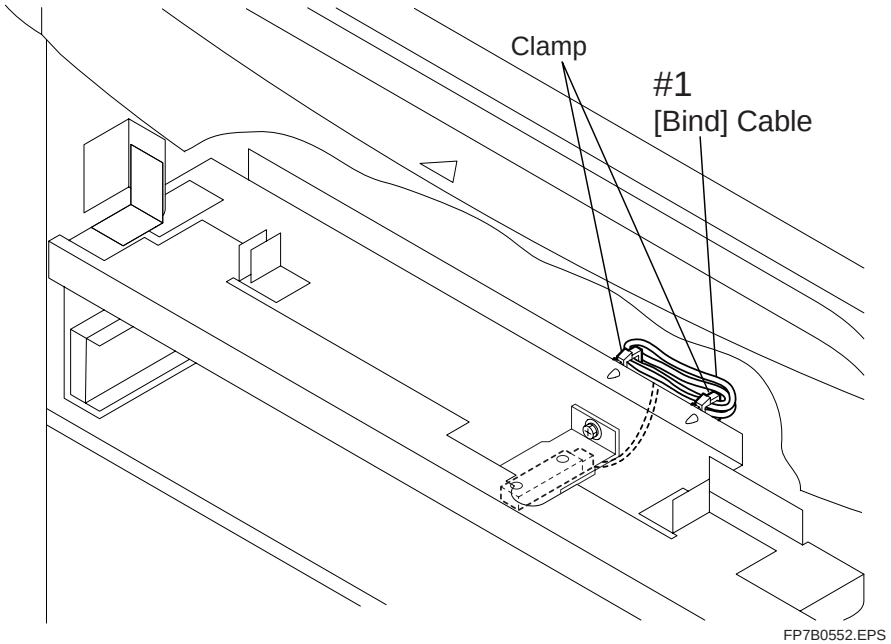


■ Reinstalling Procedure

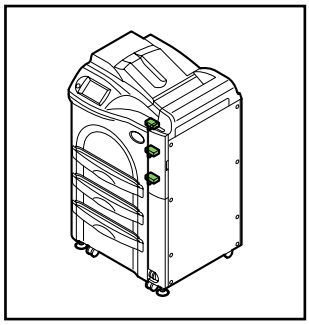
Reinstall in the reverse order of removal.

<INSTRUCTIONS>

Bind the extra length of the cable so that it does not come out of the tray insertion portion.



3 - 4 Tray Detection Switch (SA12, SA22, SA32)

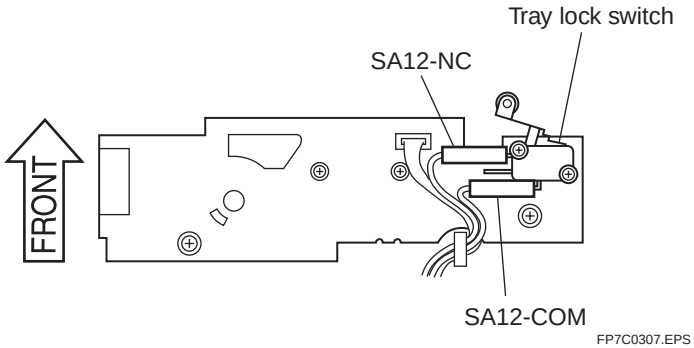


FP7C0325.EPS

■ Reinstalling Procedure

<INSTRUCTIONS>

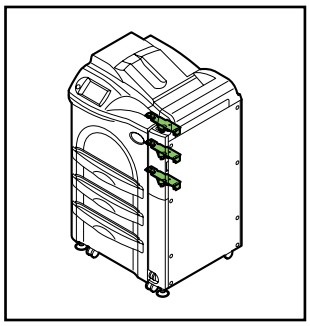
Check that the connectors are connected at the correct positions.



FP7C0307.EPS

Reinstall in the reverse order of removal.

3 - 5 Tray Lock Assembly



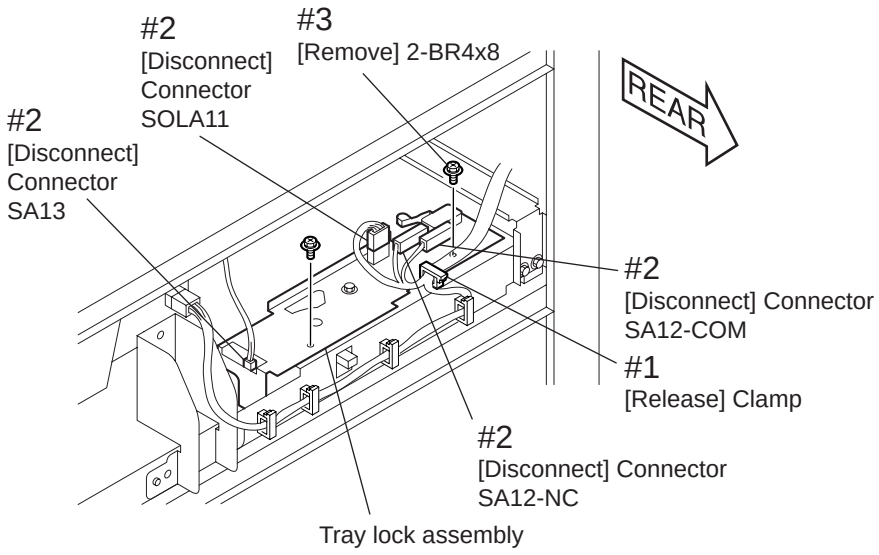
FP7C0326.EPS

■ Removing Procedure

(1) Remove the following cover.
- Rear cover

(2) Pull out the tray.

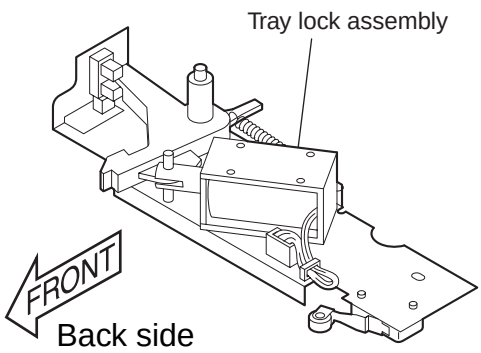
(3) Remove the tray lock assembly.



FP7C0308.EPS

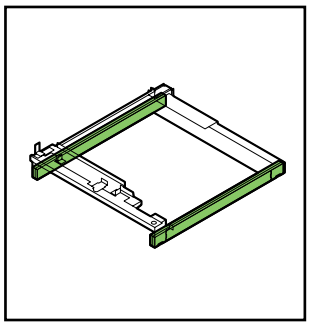
■ Reinstalling Procedure

Reinstall in the reverse order of removal.



FP7C0309.EPS

3 - 6 Tray Loading Unit Rail



FP7C0327.EPS

■ Removing Procedure

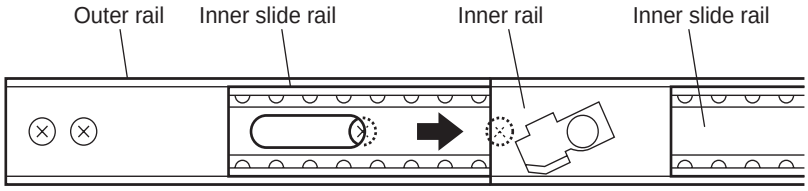
(1) Remove the tray loading unit.

(2) Remove the tray lock assembly.

☞ "3.5 Tray Lock Assembly"

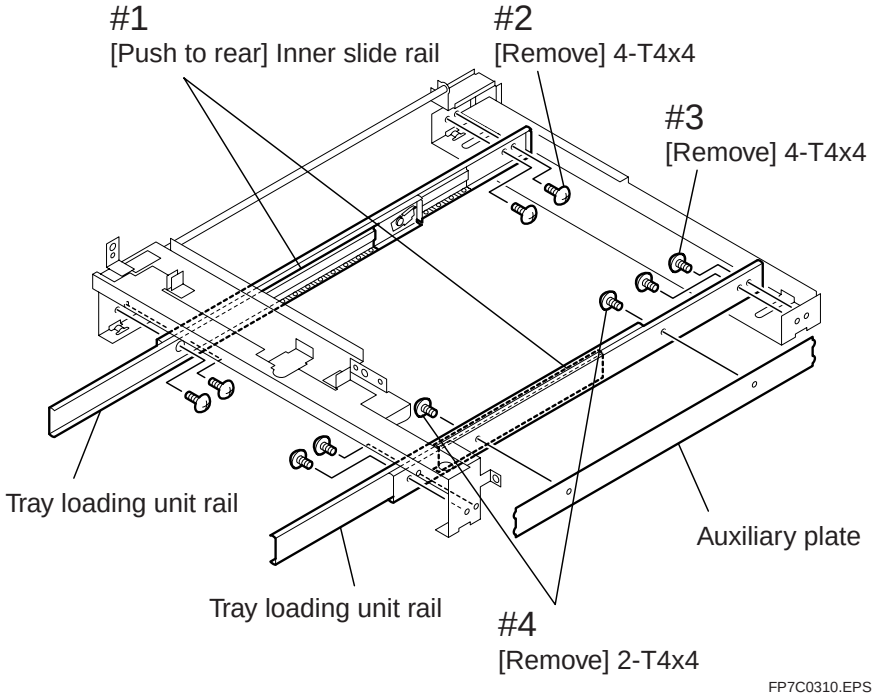
<NOTE>

When removing the tray loading unit rail, while sliding the inner rail and inner slide rail, remove the screws.



FP7C0320.EPS

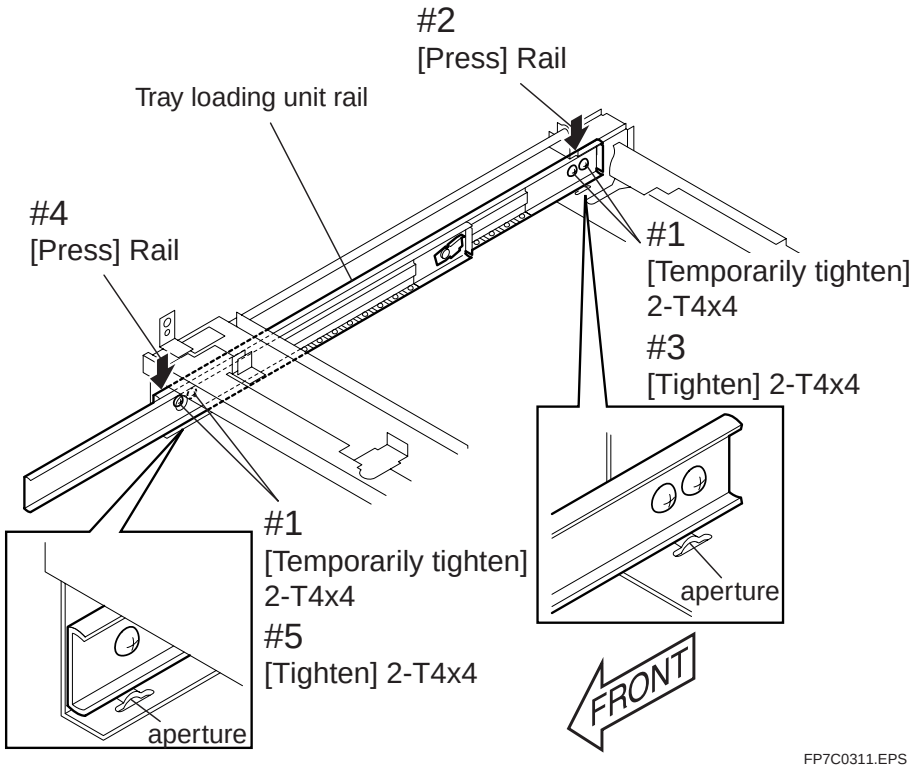
(3) Remove the tray loading unit rail.



FP7C0310.EPS

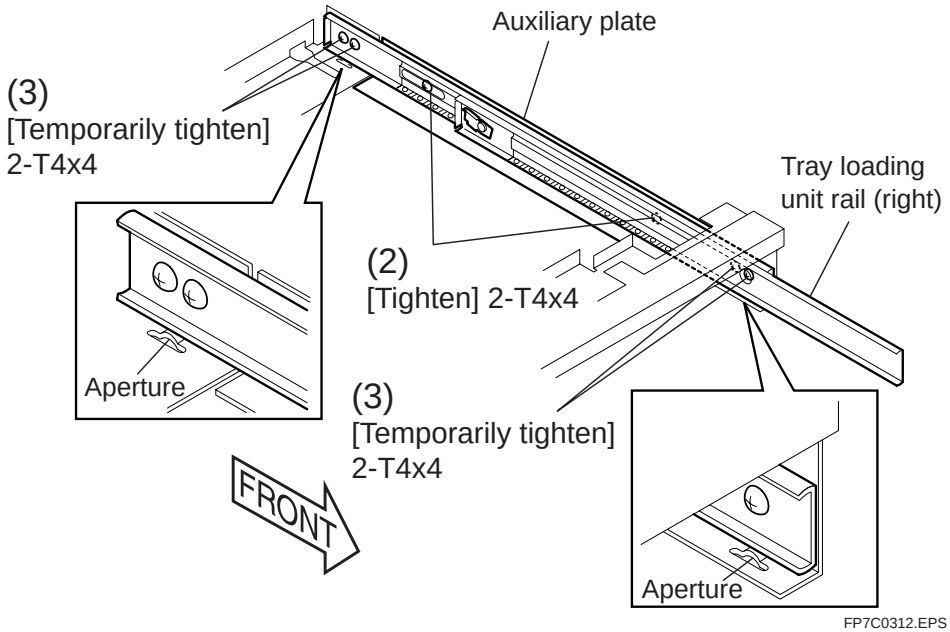
■ Reinstalling Procedure

(1) While pressing the tip in front and behind the left rail of the tray loading unit against the aperture of the tray loading unit, secure the rail with the screws.

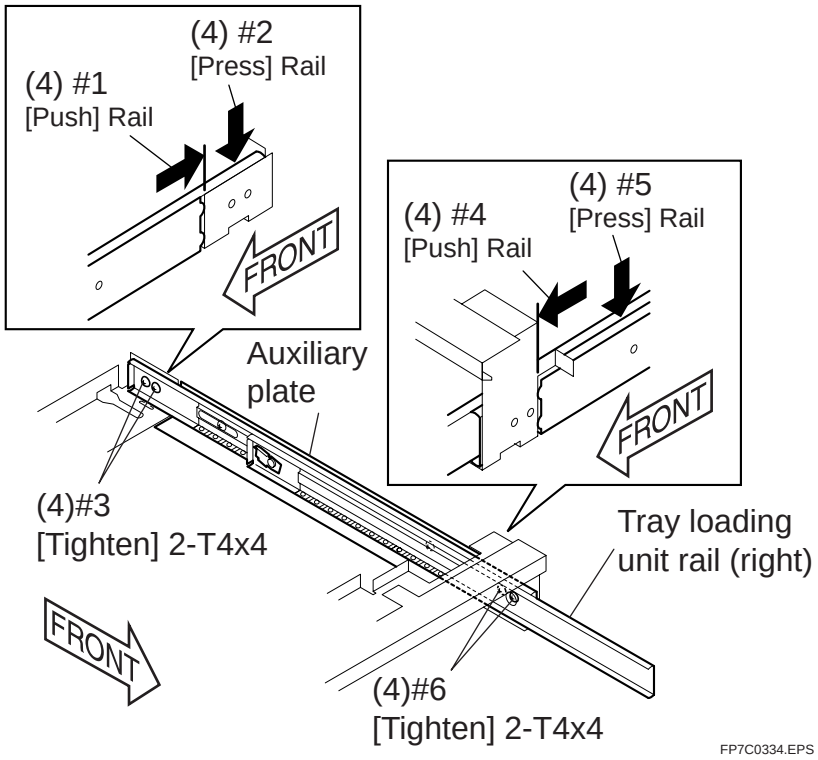


(2) Secure the auxiliary plate to the tray loading unit right rail using the screws.

(3) Place the tip in front and behind the right rail of the tray loading unit on the aperture of the tray loading unit, tighten the rail temporarily with the screws.



(4) Push the protrusion in front and behind the auxiliary plate secured to the tray loading unit right rail against the part for attaching on the tray loading unit, and while pressing the rail against the aperture, tighten the temporarily tightened screws firmly.



■ CHECK/Adjusting Procedure

- After reinstalling the tray loading unit rail, insert the tray into the tray loading unit, and check that it moves smoothly.
- Apply bonding to the ten screws securing the tray loading unit rail.

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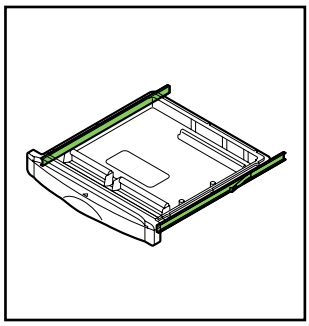
Tray Rail



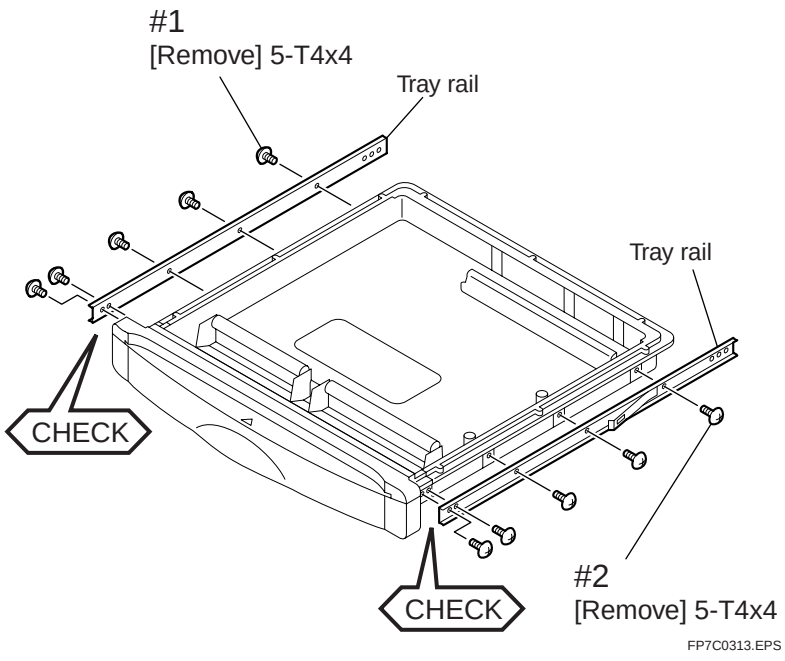
FP7C0328.EPS

■ Removing Procedure

(1) Remove the tray.

☞ “3.2 Tray”

(2) Remove the tray rail.

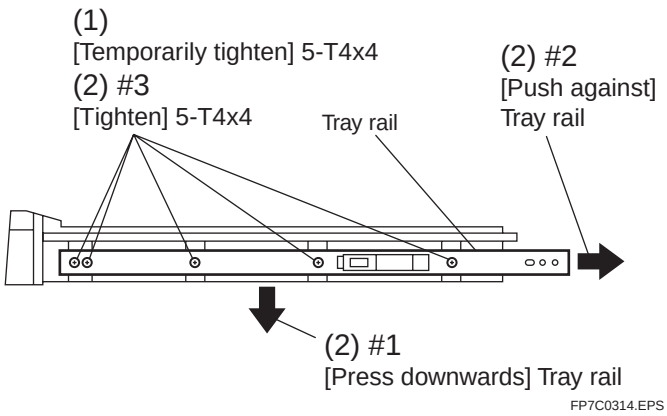


FP7C0313.EPS

■ Reinstalling Procedure

(1) Temporarily secure the tray rail to the tray.

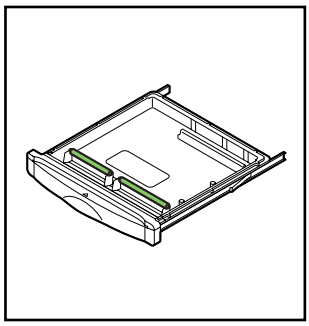
(2) While pressing the tray rail downwards, tighten the screws.



■ CHECK/Adjusting Procedure

- After reinstalling the tray rail, insert the tray into the tray loading unit, and check that it moves smoothly.
- Apply bonding to the ten screws securing the tray rail.

3 - 8 Squeezing Roller



FP7C0329.EPS

■ Removing Procedure

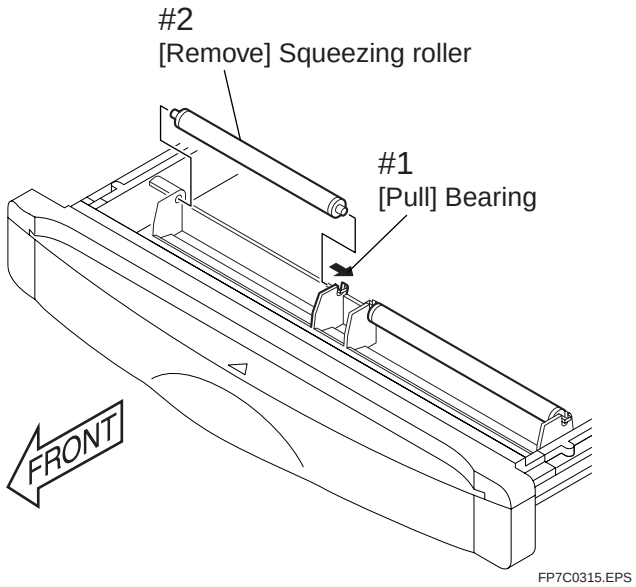
(1) Remove the tray.

☞ "3.2 Tray"

<NOTE>

When removing the squeezing roller, be careful not to damage the bearing of the tray,

(2) Remove the squeezing roller.



FP7C0315.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

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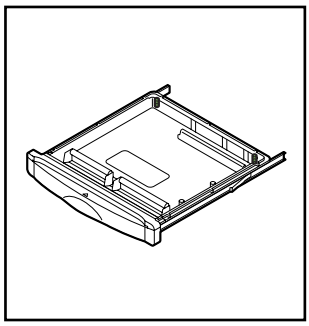
Special Screw



FP7C0333.EPS

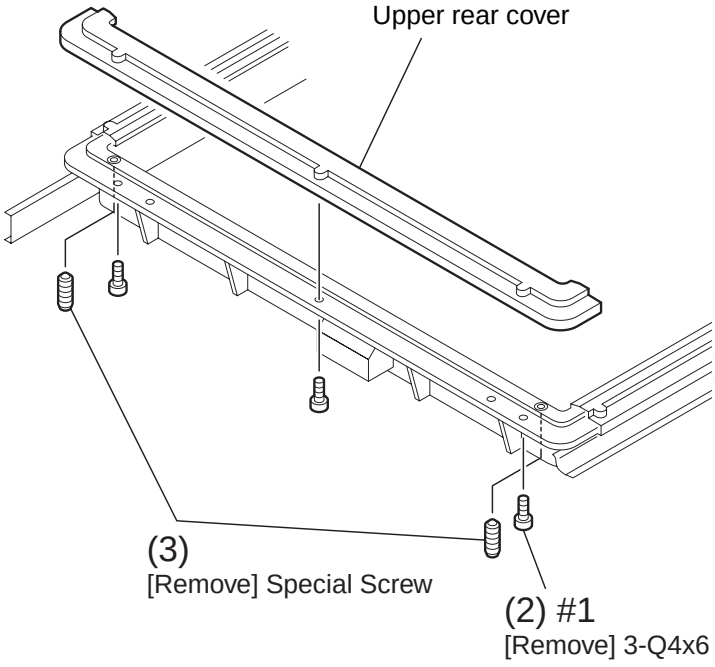
■ Removing Procedure

(1) Remove the tray.

☞ "3.2 Tray"

(2) Remove the upper rear cover of the tray.

(3) Remove the special screws.



FP7C0318.EPS

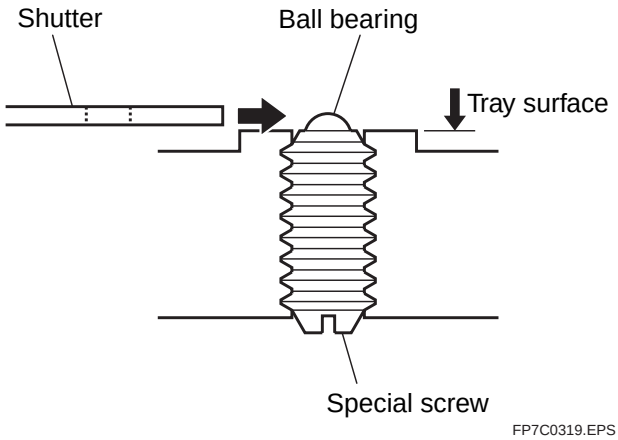
■ Reinstalling Procedure

<INSTRUCTIONS>

Attach the special screws so that only the ball bearing at the tip of the special screw protrudes from the tray surface.

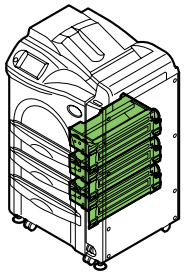
REMARKS>

These special screws are producing the click sound when inserting shutters.



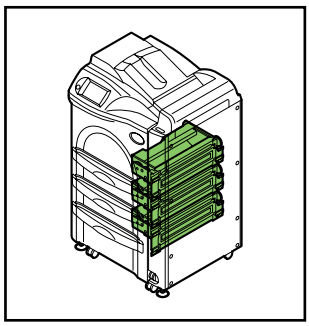
Reinstall in the reverse order of removal.

4 REMOVAL UNIT



FP7Z0411.EPS

4 - 1 Removal Unit



FP7C0412.EPS

■ Removing Procedure

(1) Remove the tray loading unit.

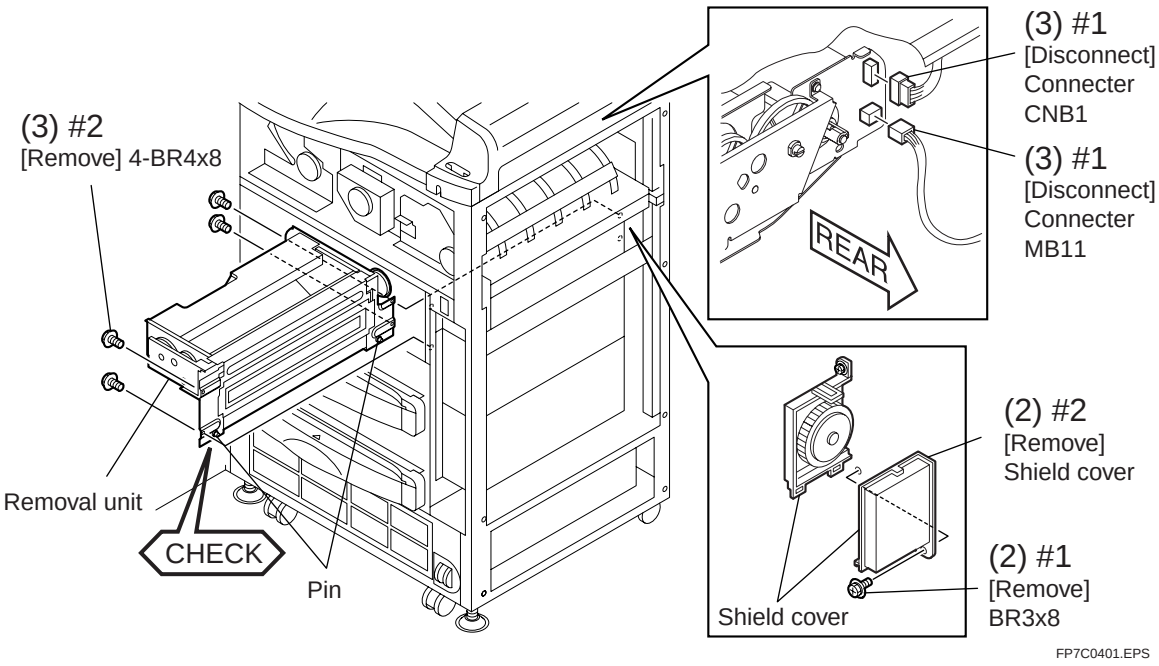
☞ “3.1 Tray Loading Unit”

(2) Remove the shield cover.

(3) Remove the removal unit.

<NOTE>

- Remove the screws (4-BR4x8) securing the removal unit while supporting the removal unit with the hand.
- To remove the removal unit, slide it to the left until the pins dislocate from the frame, then tilt the removal unit to remove. Make sure that the removal unit does not touch the BCR assembly at this time.



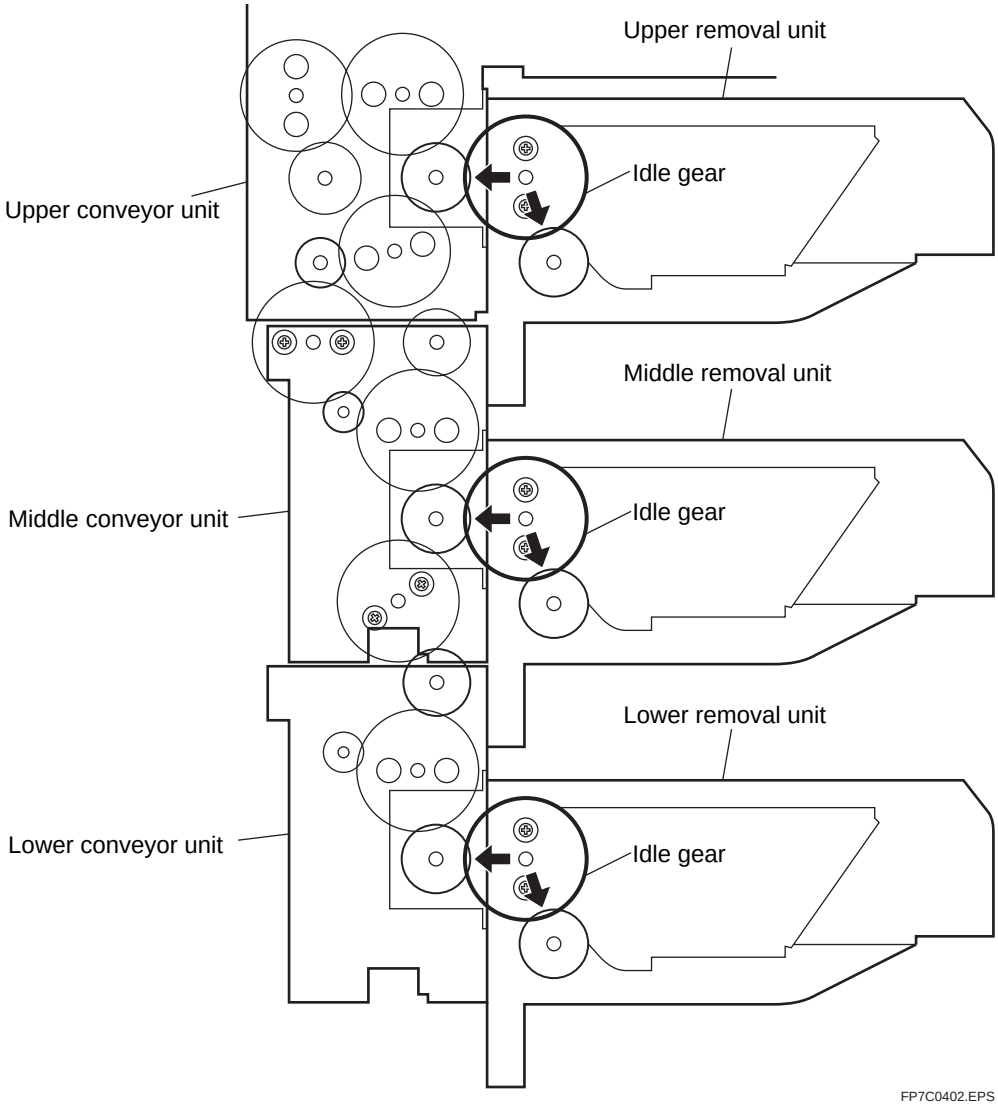
■ Reinstalling Procedure

Reinstall in the reverse order of removal.

■ CHECK/Adjusting Procedure

- When reinstalling the removal unit, insert the pins on the removal unit into the holes on the equipment.
- Perform the following adjustment if the idle gear of the removal unit has been removed or if the idle gear has been loosened.

(1) Secure the gear while pressing the flange of the idle gear against the gears in the arrow direction shown below.



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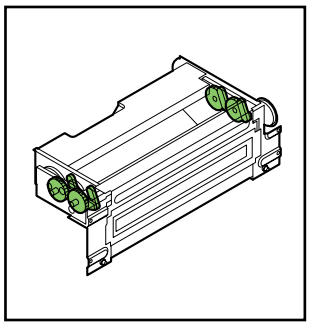
4 - 2 Removal Drive Cam



FP7C0413.EPS

■ Removing Procedure

(1) Remove the removal unit.

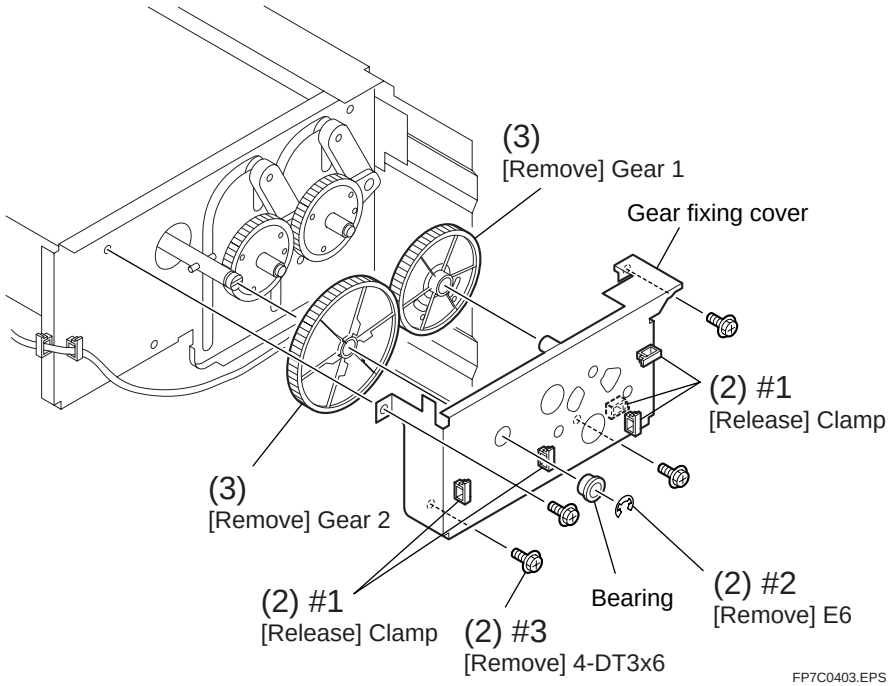
☞ "4.1 Removal Unit"

<NOTE>

When performing the following procedure, move the suction cup arm assembly to the home position first.

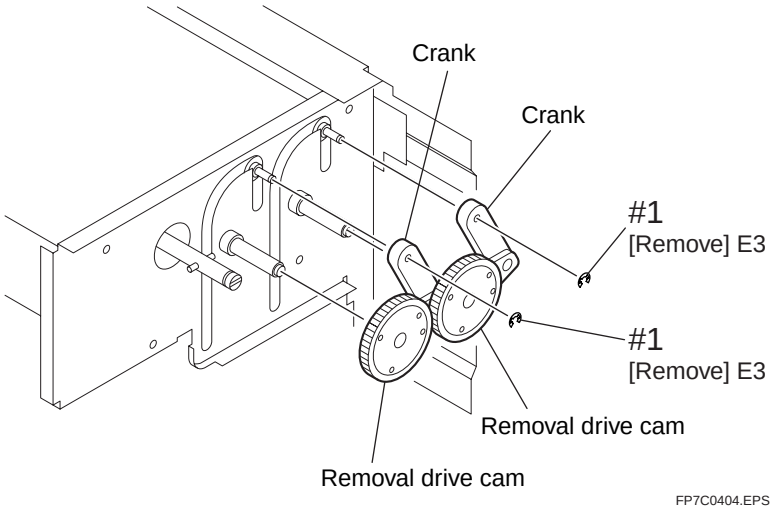
(2) Remove the gear fixing cover.

(3) Remove the gear 1 and gear 2.



FP7C0403.EPS

(4) Remove the removal drive cam together with the crank.



■ Reinstalling Procedure

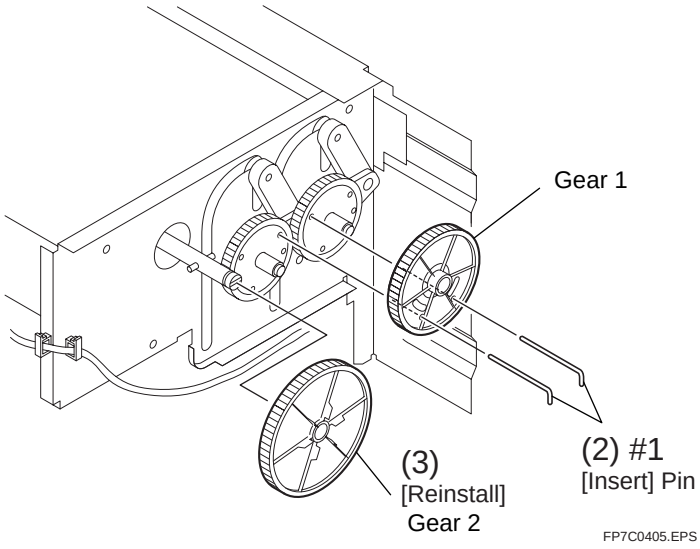
<NOTE>

When performing the following procedure, move the suction cup arm assembly to the home position first.

(1) Reinstall the removal drive cam to the removal unit together with the crank.

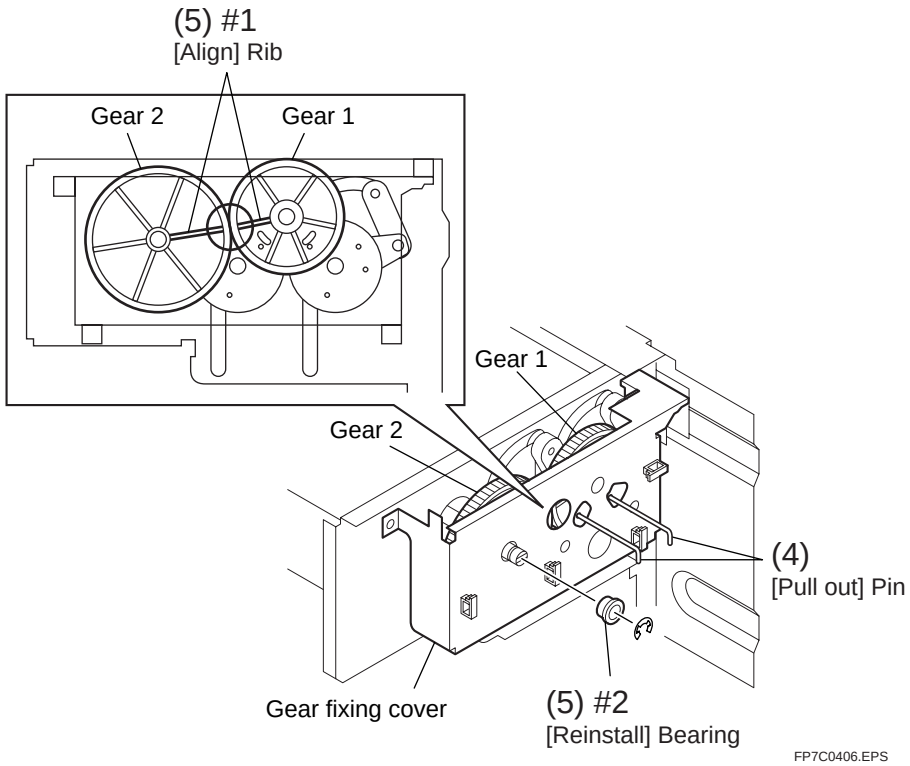
(2) Insert pins such as hexagonal wrench into the two holes on gear 1, and adjust the phase of the removal drive cam.

(3) Reinstall gear 2.



(4) Align the gear fixing cover to the attaching position, and pull out the pin.

(5) Align the rib positions of gears 1 and 2.



(6) Secure the gear fixing cover with the screws.

(7) Secure the cable with the clamp.

■ CHECK/Adjusting Procedure

After reinstalling the removal drive cam, check that the suction cup arm assembly moves smoothly.

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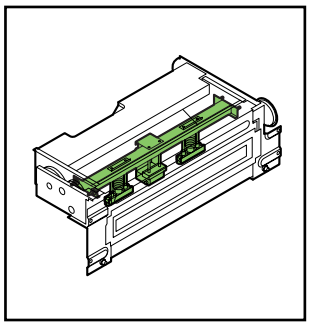


FP7C0414.EPS

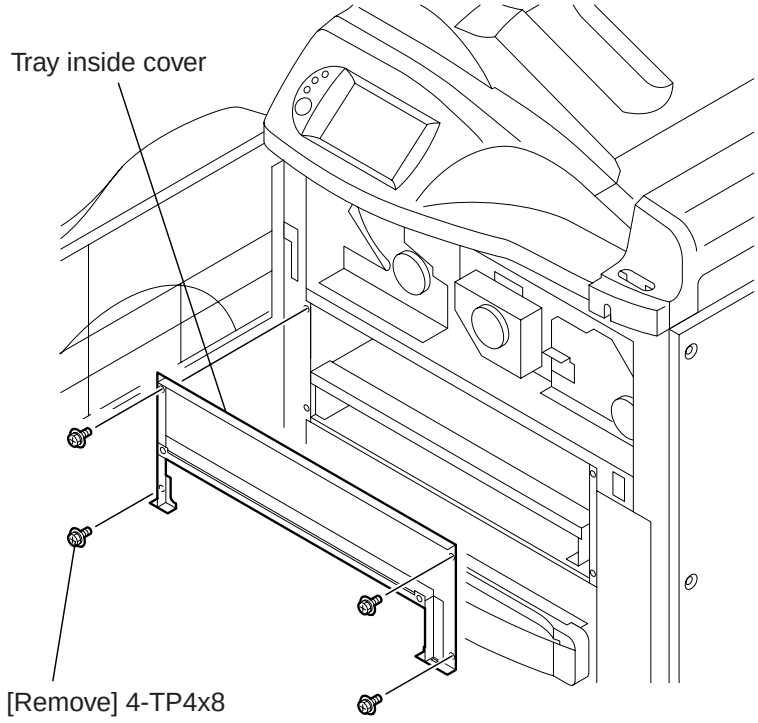
4.3.1 Removal/Reinstallation

■ Removing Procedure

(1) Remove the tray.

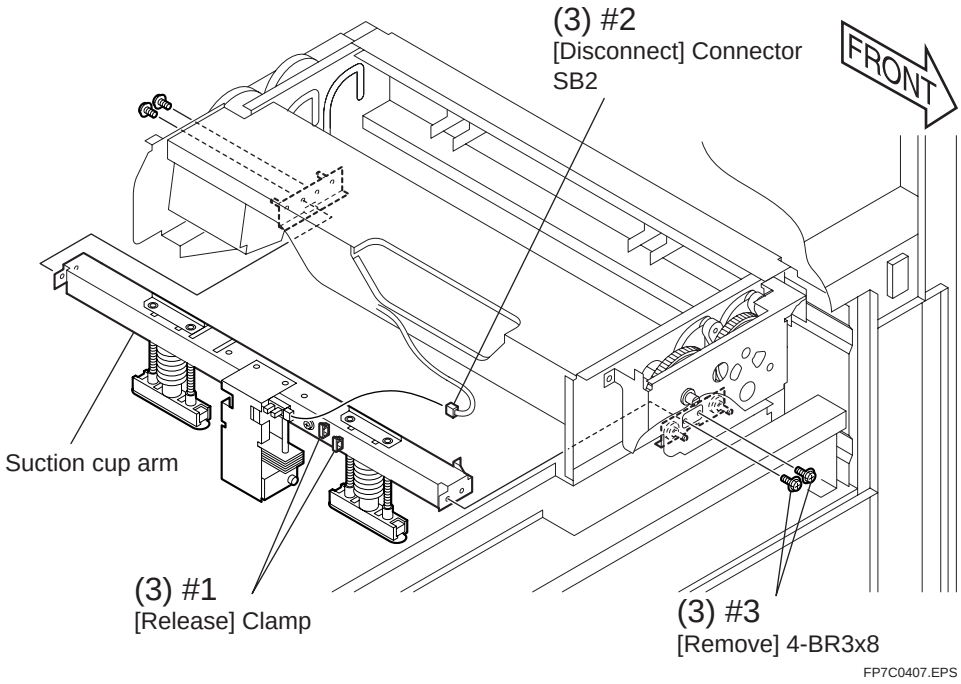
☞ “3.2 tray”

(2) Remove the tray inside cover.



FP7C0301.EPS

(3) Remove the suction cup arm.



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

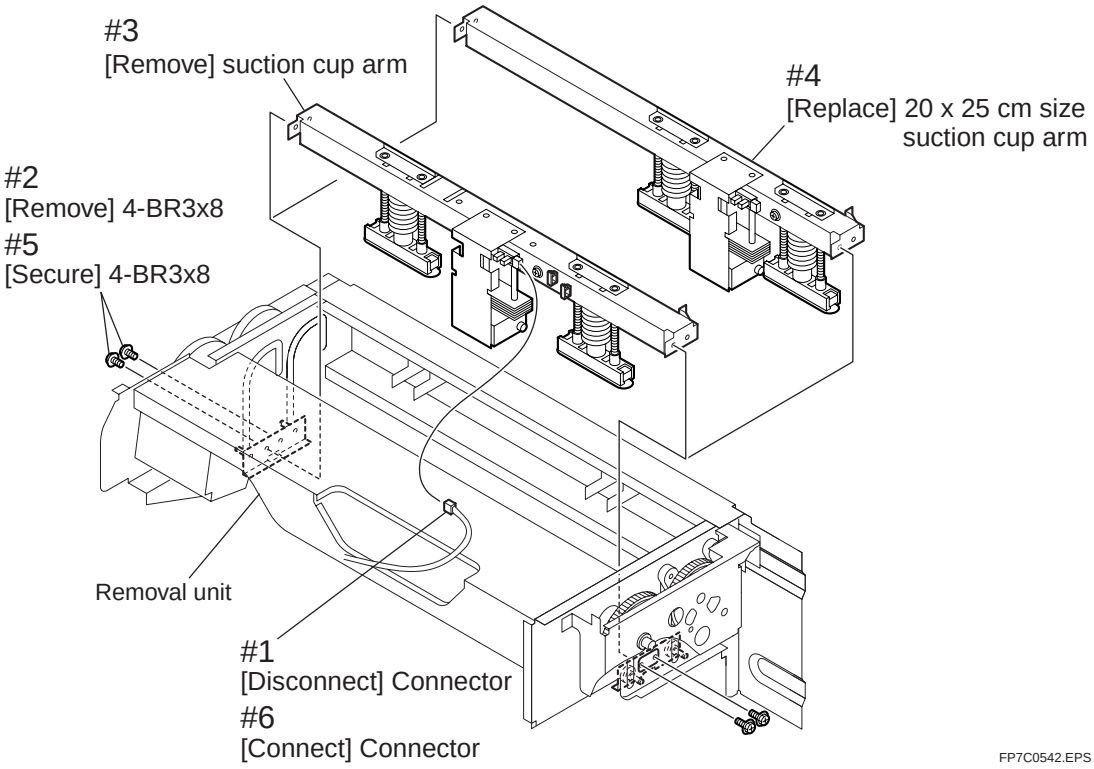
4.3.2 Changing Film Size to 20 x 25 cm

Perform the following procedure to change the film size of the current film tray (35 x 43 cm, 26 x 36 cm) to 20 x 25 cm size.

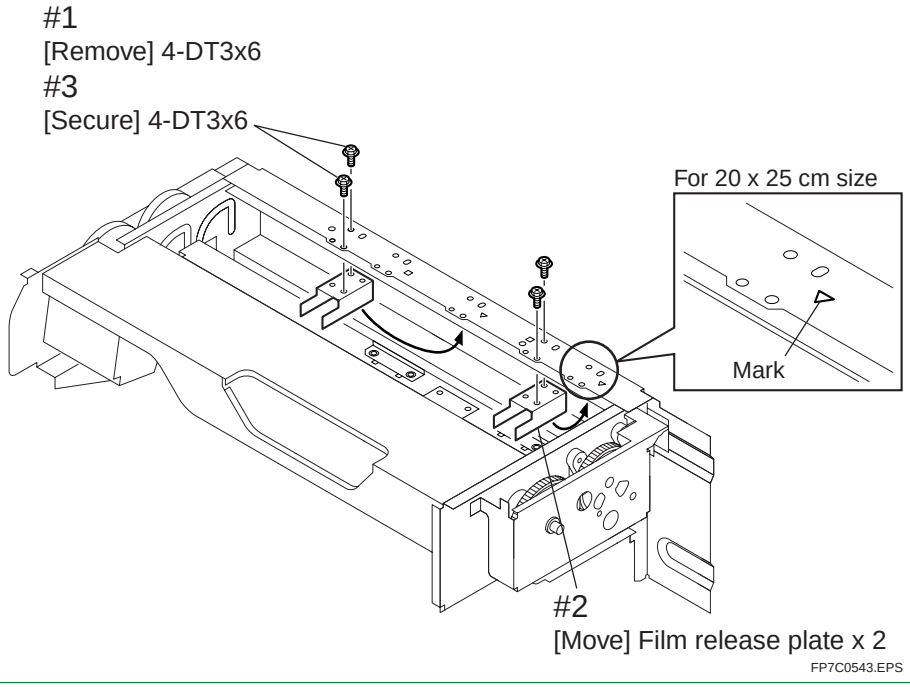
(1) Remove the removal unit.

☞ "4.1 Removal Unit"

(2) Remove the suction cup arm, and replace with the 20 x 25 cm size suction cup arm.



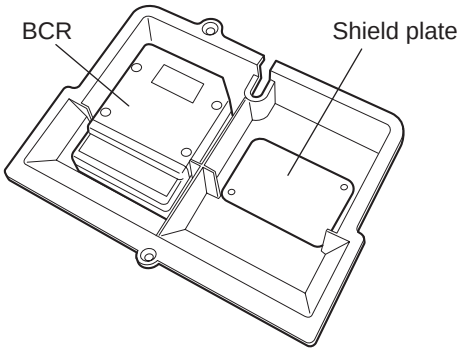
(3) Change the attaching position of the film release plate.



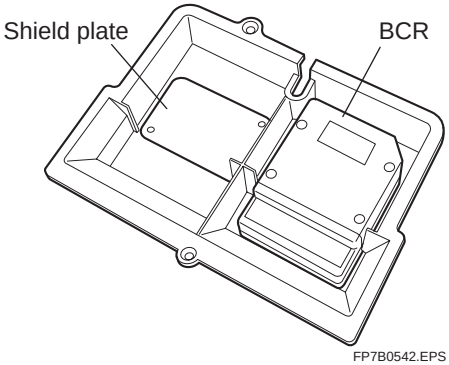
(4) To change the film size from 35 x 43 cm to 20 x 25 cm, change the attaching position of the barcode reader.

☞ "2.1 BCR Assembly"

35 x 43 cm size



26 x 36/20 x 25 cm size

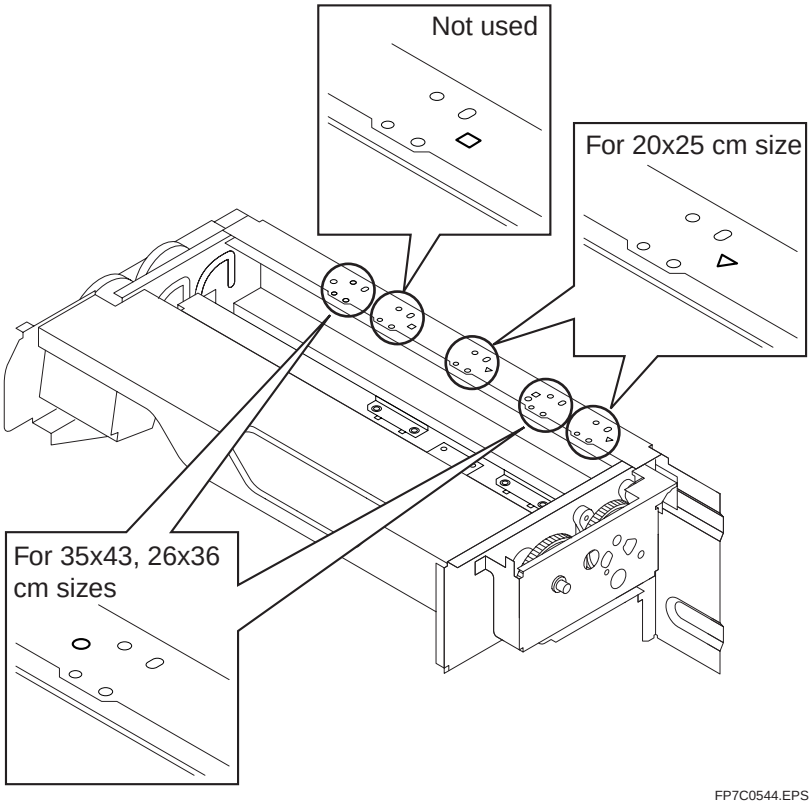


FP7B0542.EPS

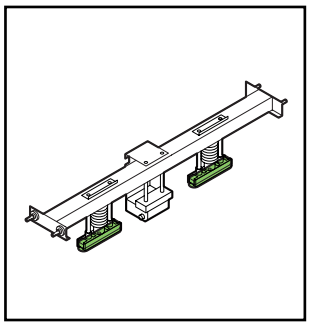
(5) Reinstall the removed parts in the reversed order of the removing procedure.

<REMARKS>

The attaching position of the film release plate of the removal unit is marked with the respective film sizes. To return the film size from 20 x 25 cm to other sizes, refer to the following figure and change the attaching position of the film release plate.



FP7C0544.EPS



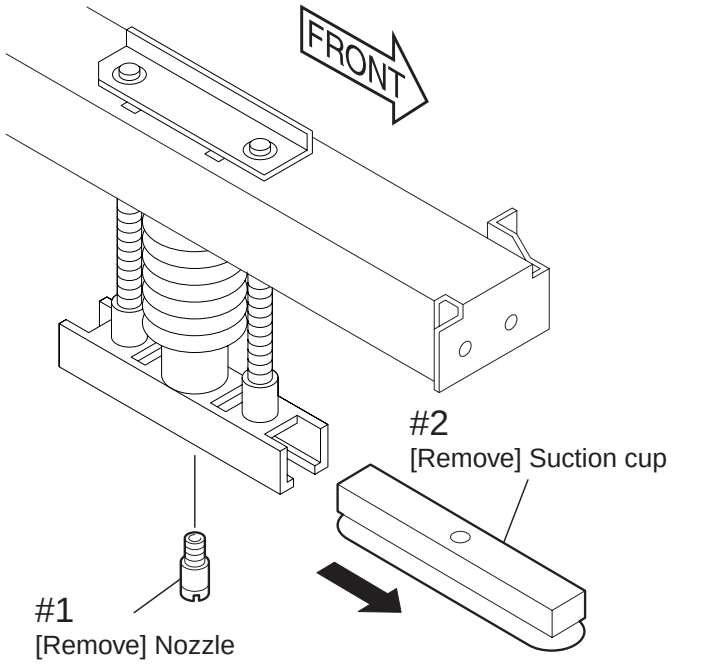
FP7C0415.EPS

■ Removing Procedure

(1) Remove the suction cup arm.

☞ "4.3 Suction Cup Arm"

(2) Remove the suction cup.



FP7C0408.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

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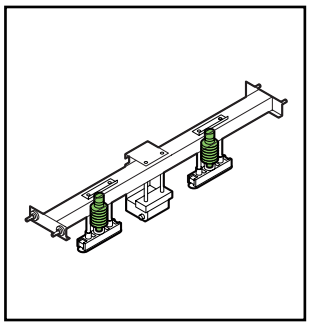
4 - 5 Bellows



FP7C0416.EPS

■ Removing Procedure

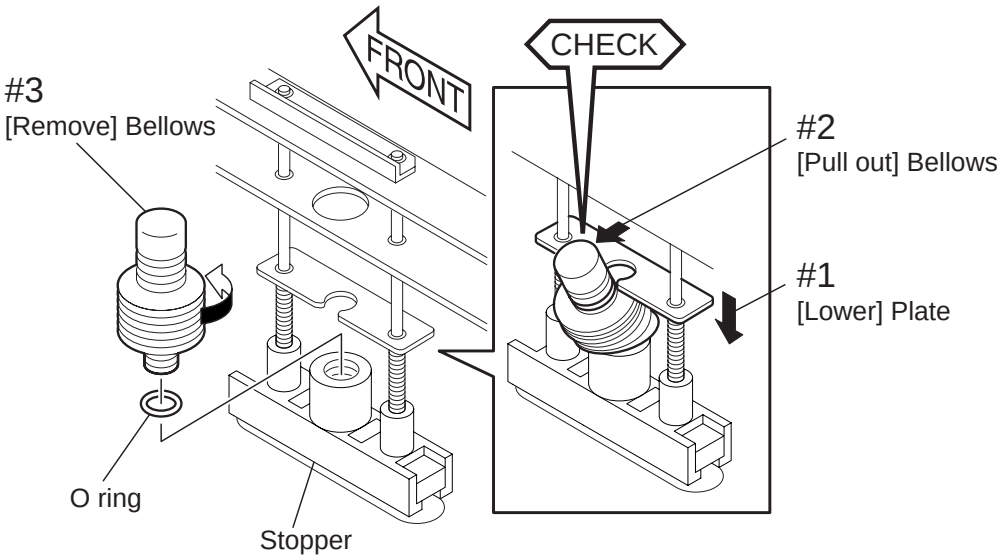
(1) Remove the suction cup arm.

☞ "4.3 Suction Cup Arm"

<INSTRUCTIONS>

Rotate the bellows in the tightened state to remove.

(2) Remove the bellows.

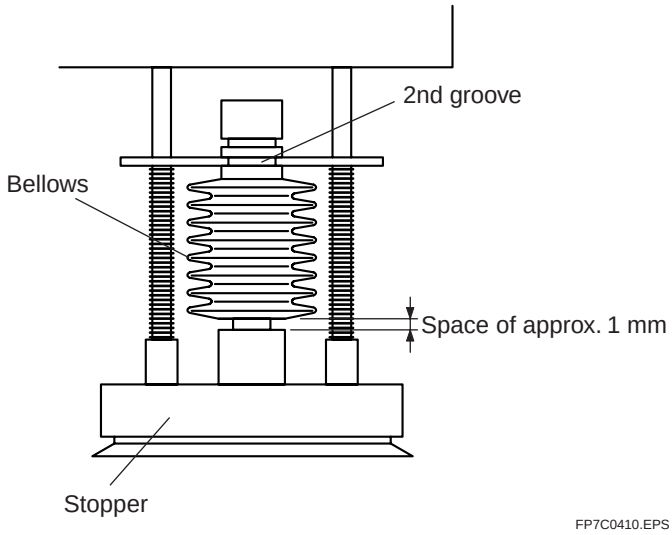


FP7C0409.EPS

■ Reinstalling Procedure

<INSTRUCTIONS>

- If the bellows has been removed, be sure to replace the O ring.
- To reinstall, insert the second groove on the top of the bellows into the plate.
- To reinstall, leave a space of 1 mm between the bellows and stopper.



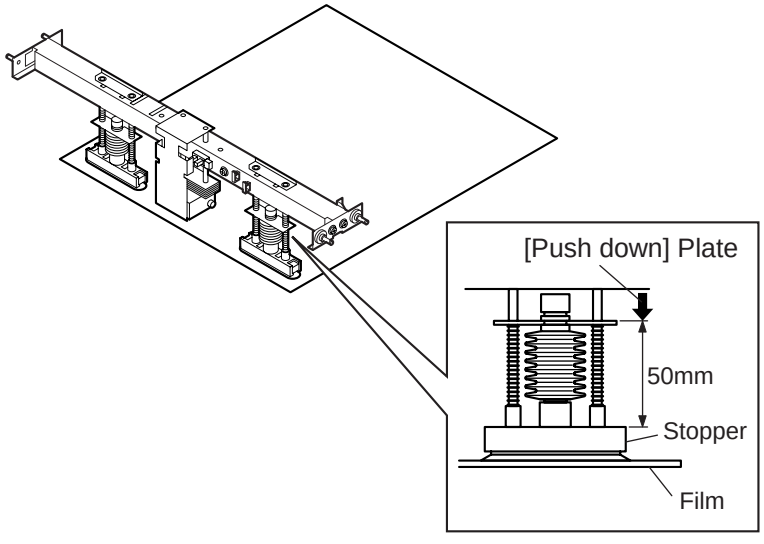
Reinstall in the reverse order of removal.

■ CHECK/Adjusting Procedure

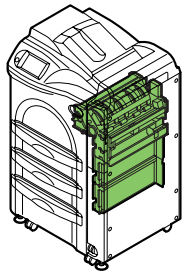
Check for air leakage as follows.

(1) Push down the plate, and with an approximately 50 mm space between the plate and stopper, push the suction cup against the film.

(2) Two minutes later, check that the space is still 50 mm.

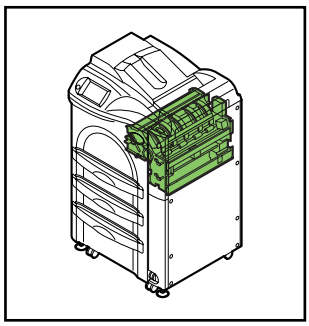


5 CONVEYOR UNIT



FP7Z0511.EPS

5 - 1 Upper Conveyor Unit



FP7C0521.EPS

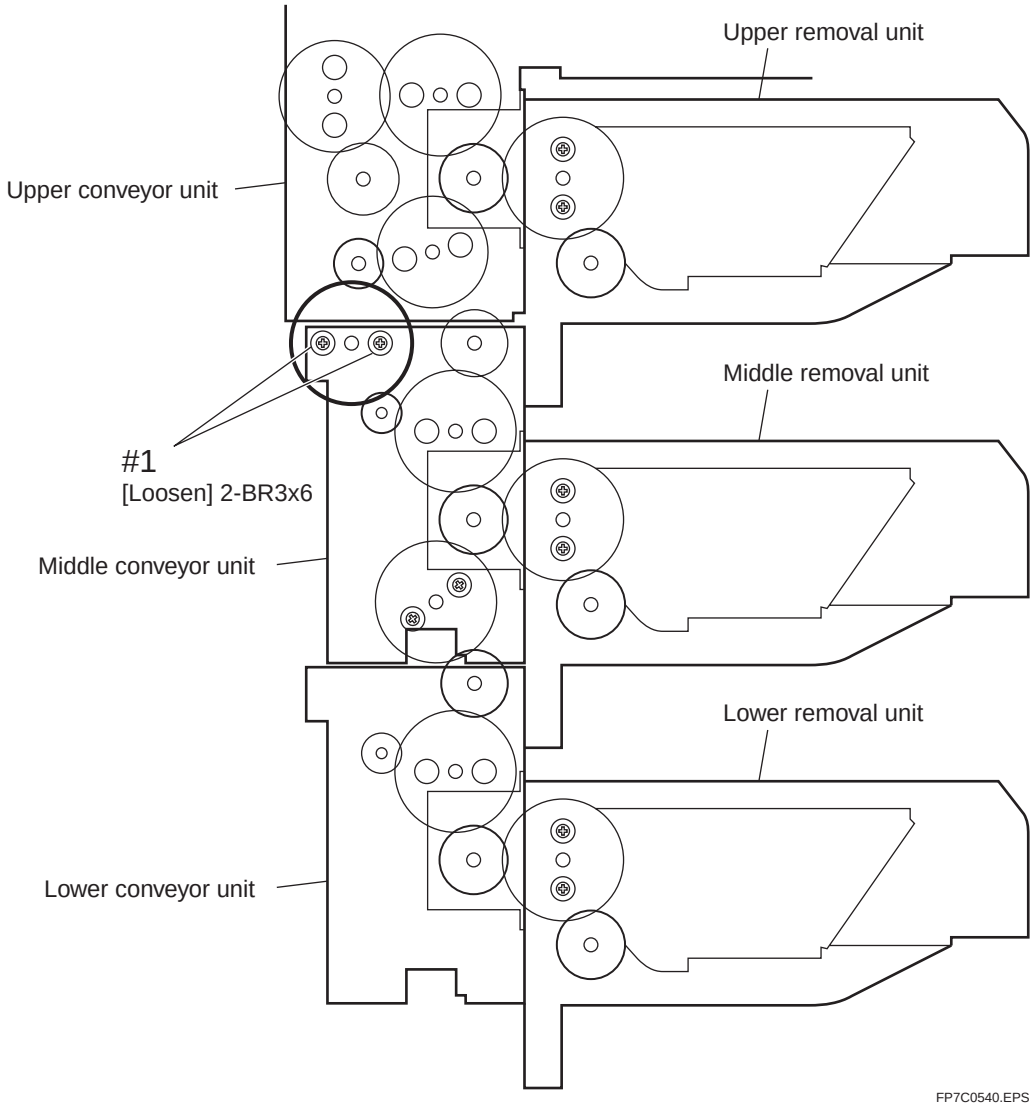
■ Removing Procedure

(1) Insert the shutter into the film tray.

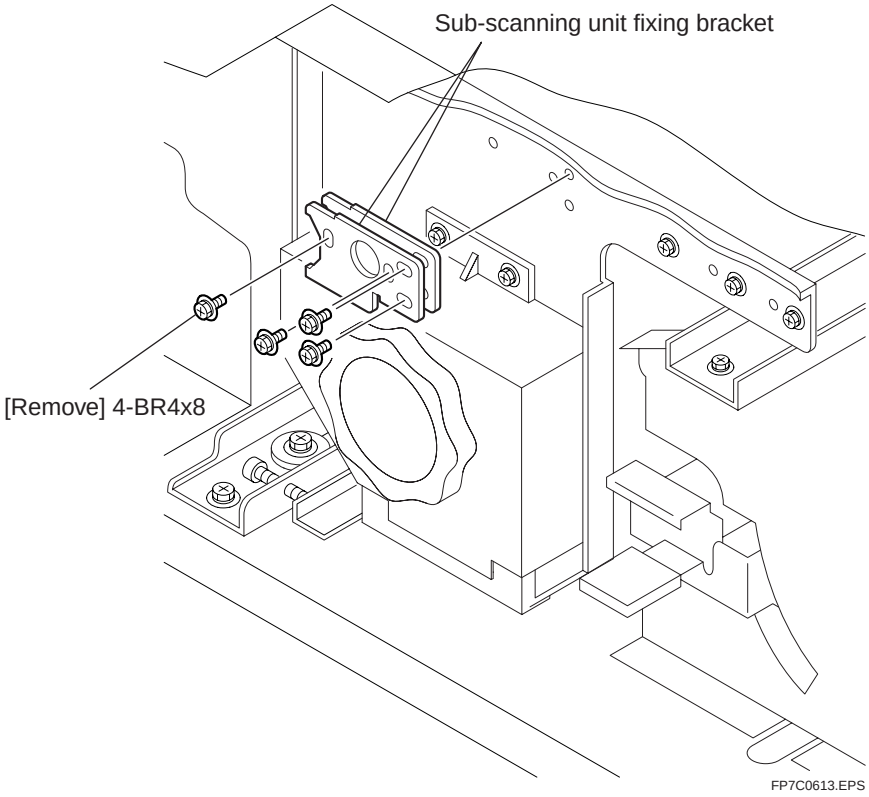
(2) Remove the following covers.
- Upper right side cover
- Rear cover

(3) Remove the cleaning roller.

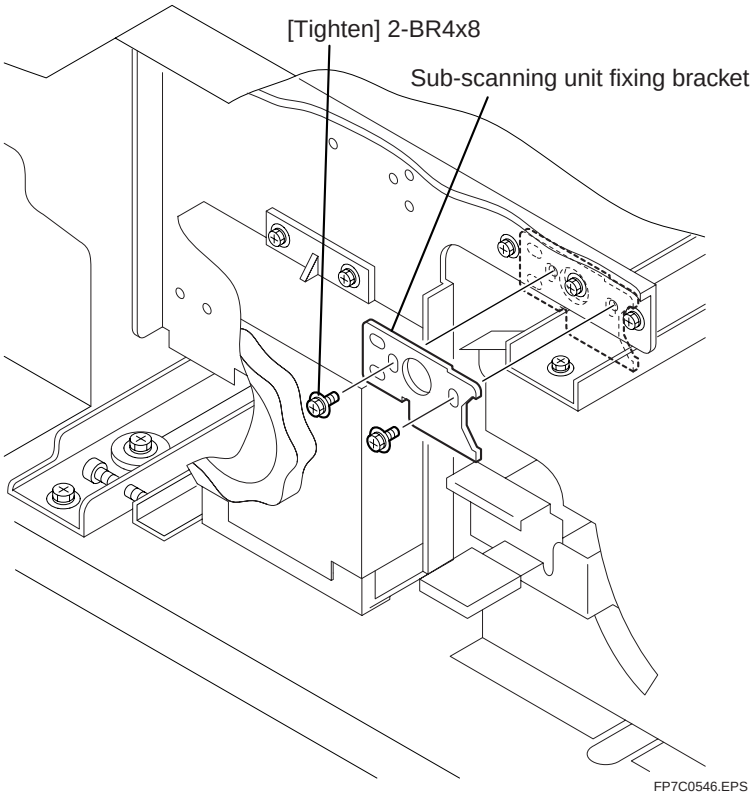
(4) If the equipment mounts film tray 2, loosen the screws securing the idle gear of the middle conveyor unit.



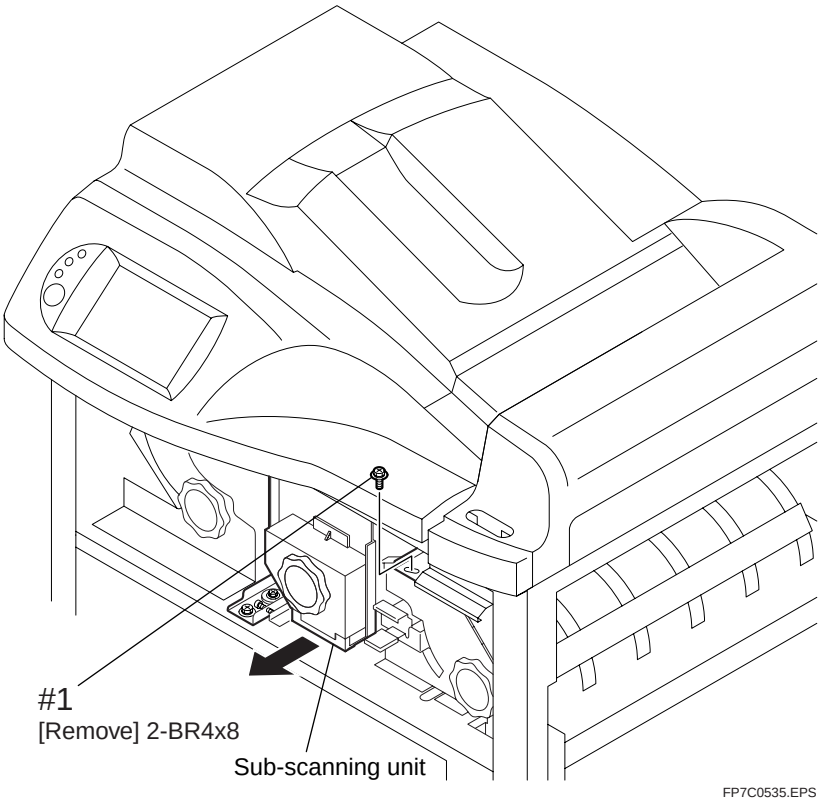
(5) Remove the sub-scanning unit fixing bracket.



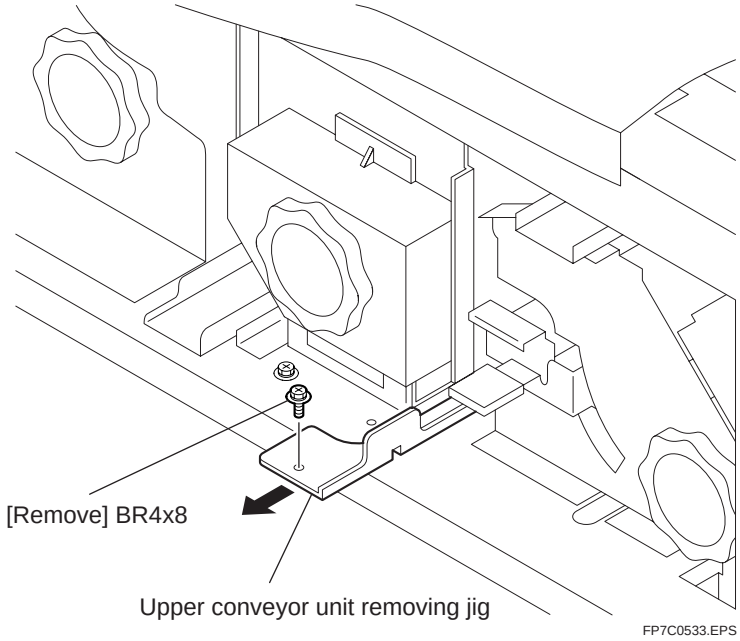
(6) Reinstall the sub-scanning unit fixing bracket at the position shown below.



(7) Remove the screws securing the sub-scanning unit.

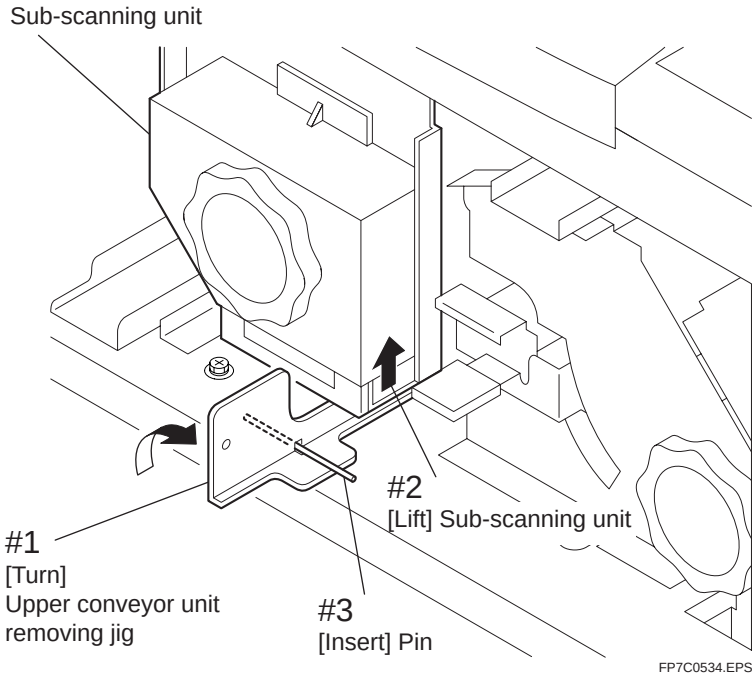


(8) Remove the upper conveyor unit removing jig.

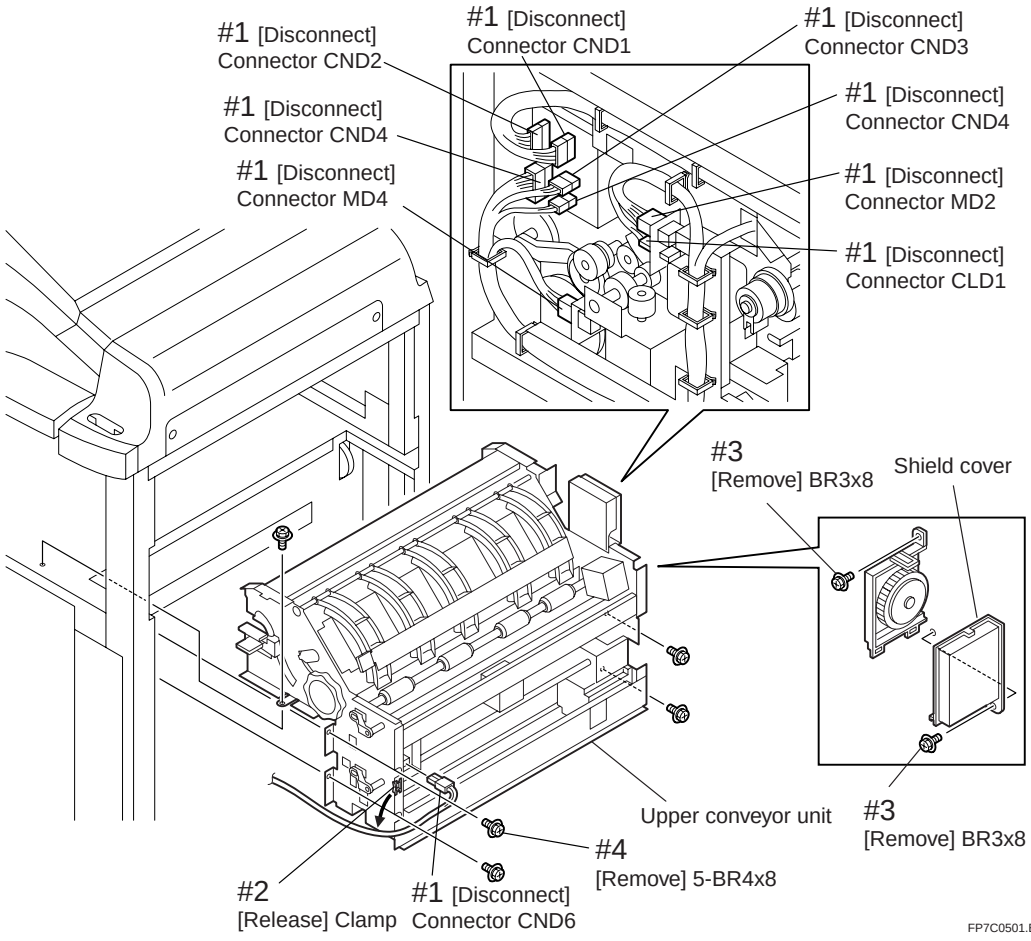


(9) Insert the upper conveyor unit removing jig below the sub-scanning unit.

Turn the upper conveyor unit removing jig clockwise direction to lift the sub-scanning unit.



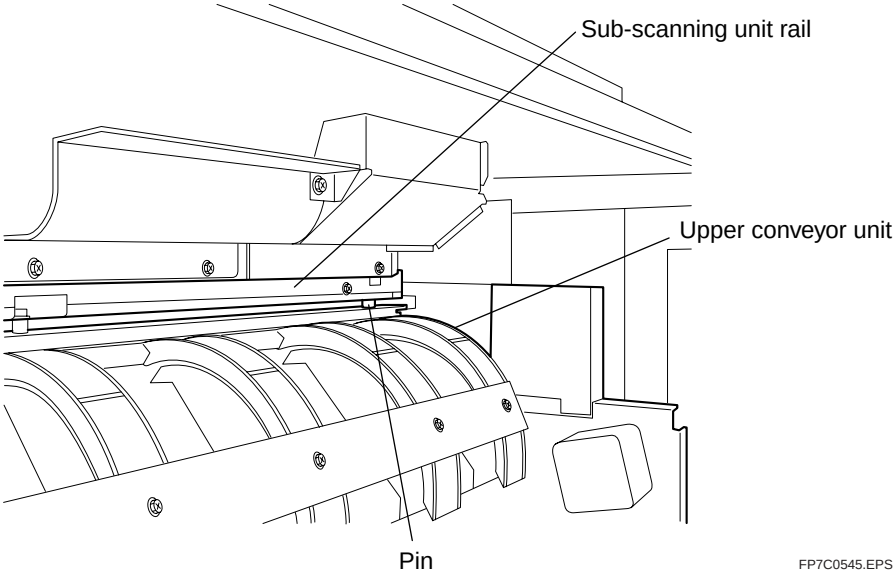
(10) Remove the upper conveyor unit.



■ Reinstalling Procedure

<INSTRUCTIONS>

When reinstalling the upper conveyor unit, check that the pin on the upper conveyor unit is inserted into the groove of the sub-scanning unit rail.

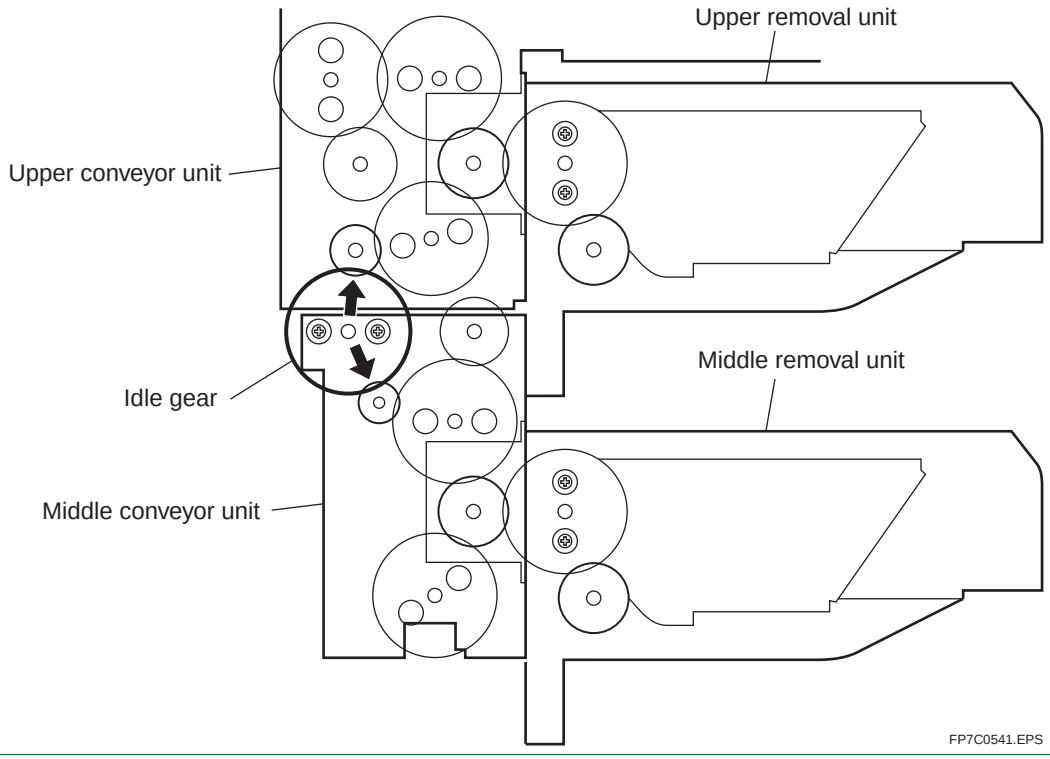


Reinstall in the reverse order of removal.

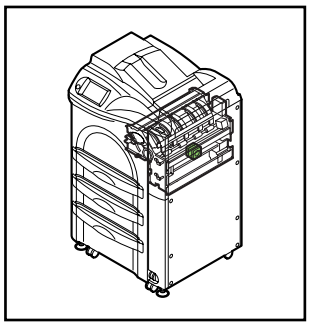
■ CHECK/Adjusting Procedure

Perform the following adjustment if the idle gear of the middle conveyor unit has been removed or if the idle gear has been loosened.

(1) Secure the gear while pressing the flange of the idle gear against the gears in the arrow direction shown below.



Film Positioning Motor (Lower) (MD6)

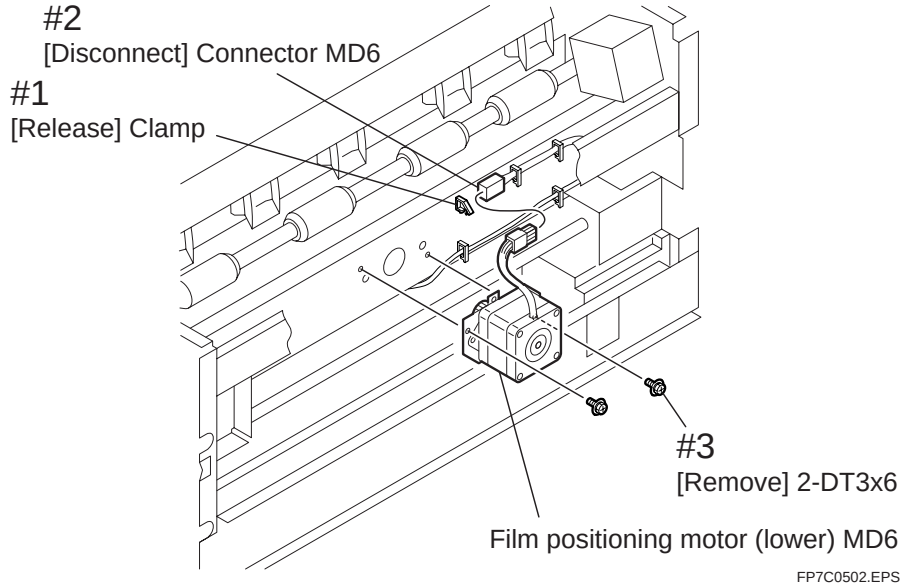


FP7C0522.EPS

■ Removing Procedure

(1) Remove the following cover.
- Right side cover

(2) Remove the film positioning motor (lower) (MD6).

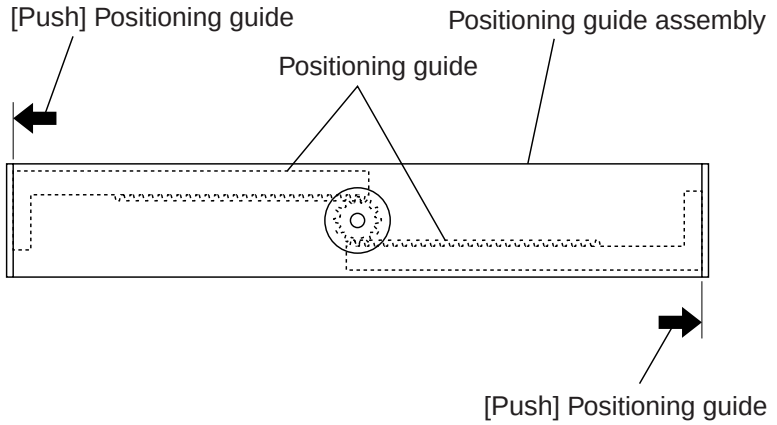


FP7C0502.EPS

■ Reinstalling Procedure

<INSTRUCTIONS>

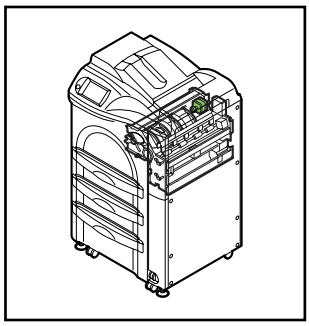
Open the left and right positioning guides of the positioning guide assembly until they touch the sides when installing the film positioning motor (MD6).



FP7C0503.EPS

Reinstall in the reverse order of removal.

5 - 3 Upper Conveyor Unit Exit Motor (MD2)



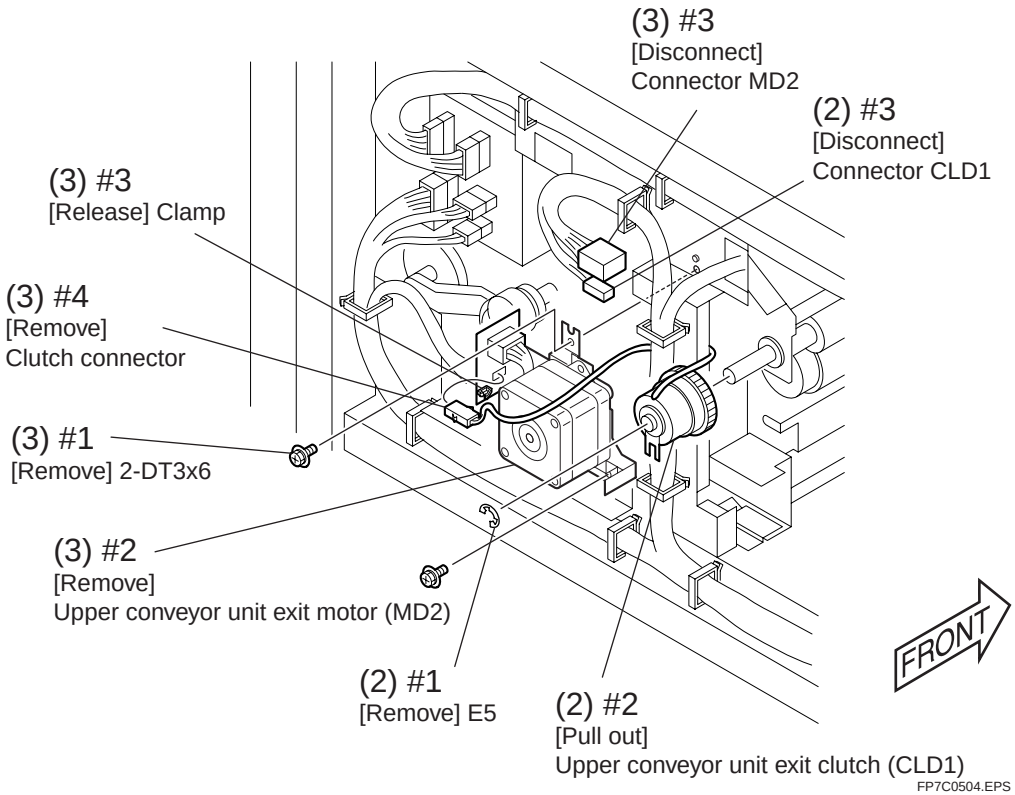
FP7C0523.EPS

■ Removing Procedure

(1) Remove the following cover.
- Rear cover

(2) Remove the conveyor unit exit clutch (CLD1)

(3) Remove the exit conveyance motor (MD2).



FP7C0504.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

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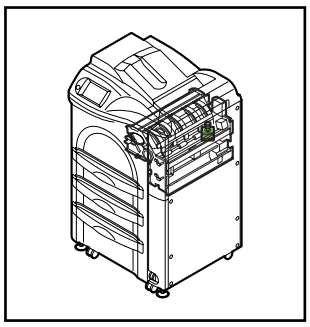
5 - 4 Cleaning Roller Grip Release Motor (MD4)

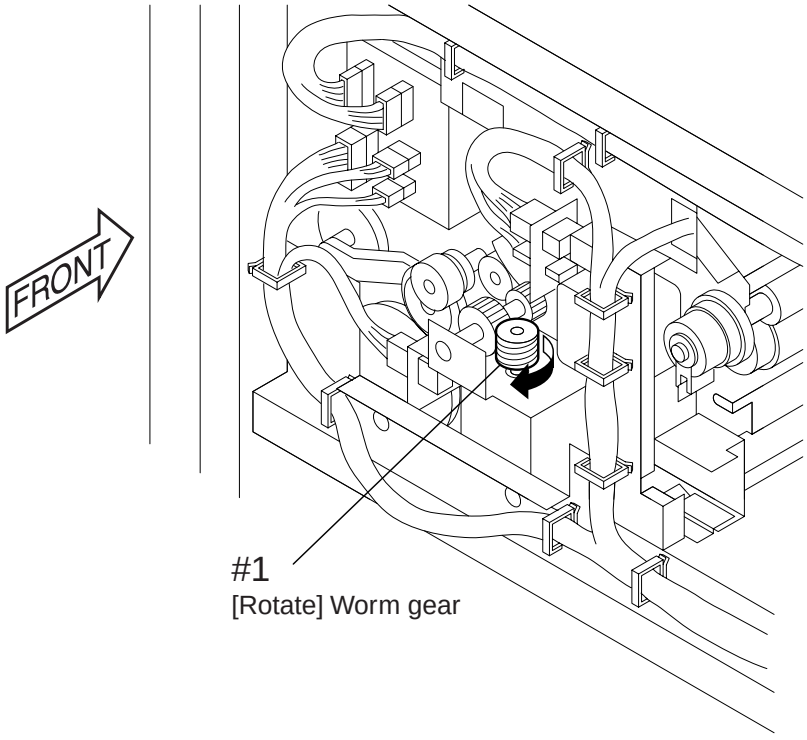


FP7C0524.EPS

■ Removing Procedure

(1) Remove the following cover.
- Rear cover

(2) Rotate the worm gear of the cleaning roller grip release motor (MD4) in the arrow direction shown in the figure with the hand so that it grips the cleaning roller.

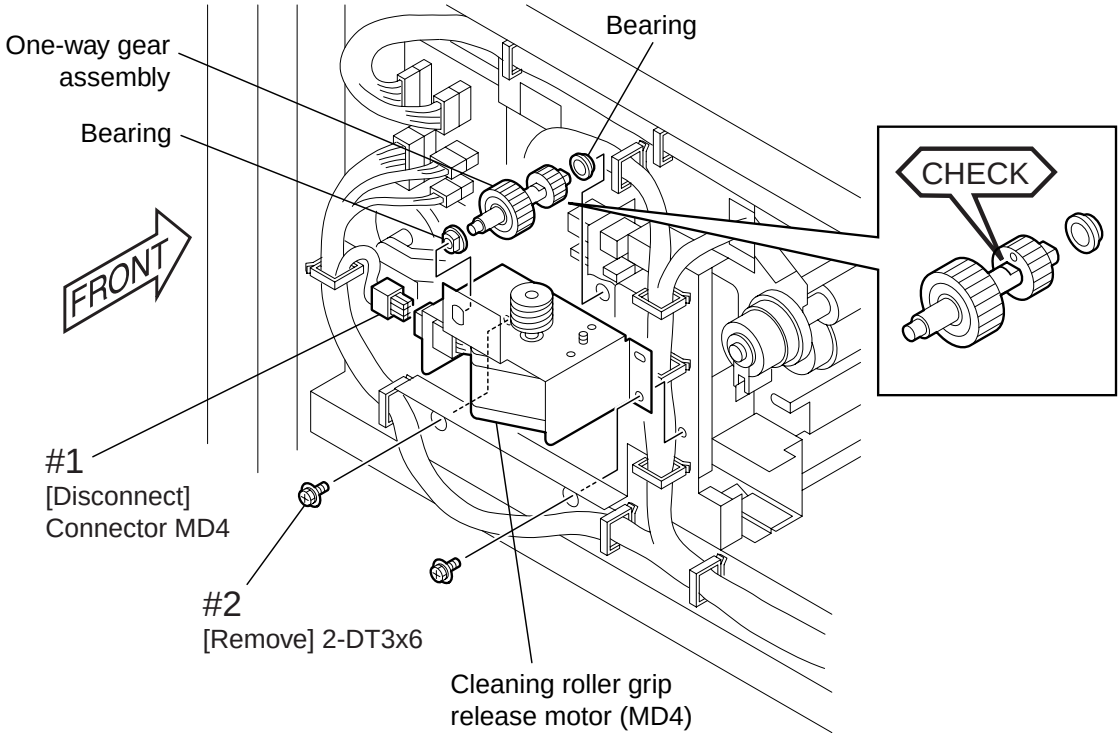


FP7C0539.EPS

(3) Remove the cleaning roller grip release motor (MD4).

<NOTE>

Remove the one-way gear assembly making sure not to drop the bearing.



FP7C0505.EPS

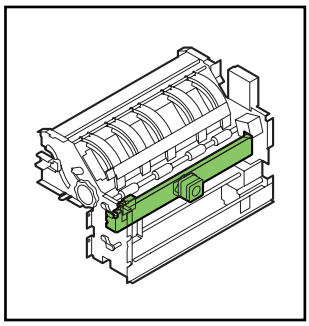
■ Reinstalling Procedure

Reinstall in the reverse order of removal.

■ CHECK/Adjusting Procedure

Reinstall the motor with the D cut side of the one-way gear assembly shaft facing up.

Film Positioning Assembly (Lower)



FP7C0525.EPS

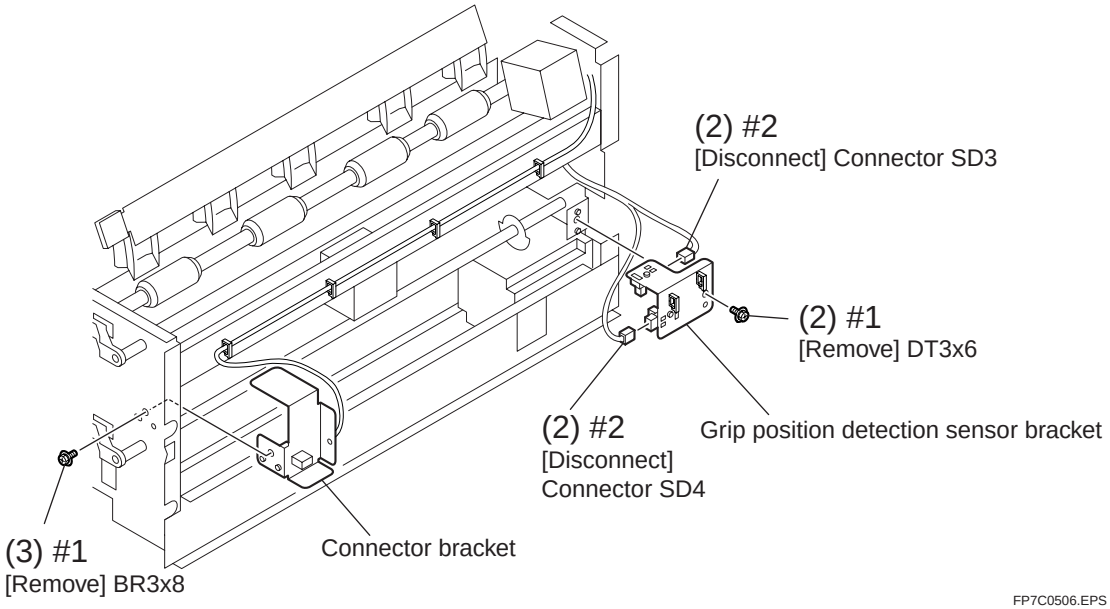
■ Removing Procedure

(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

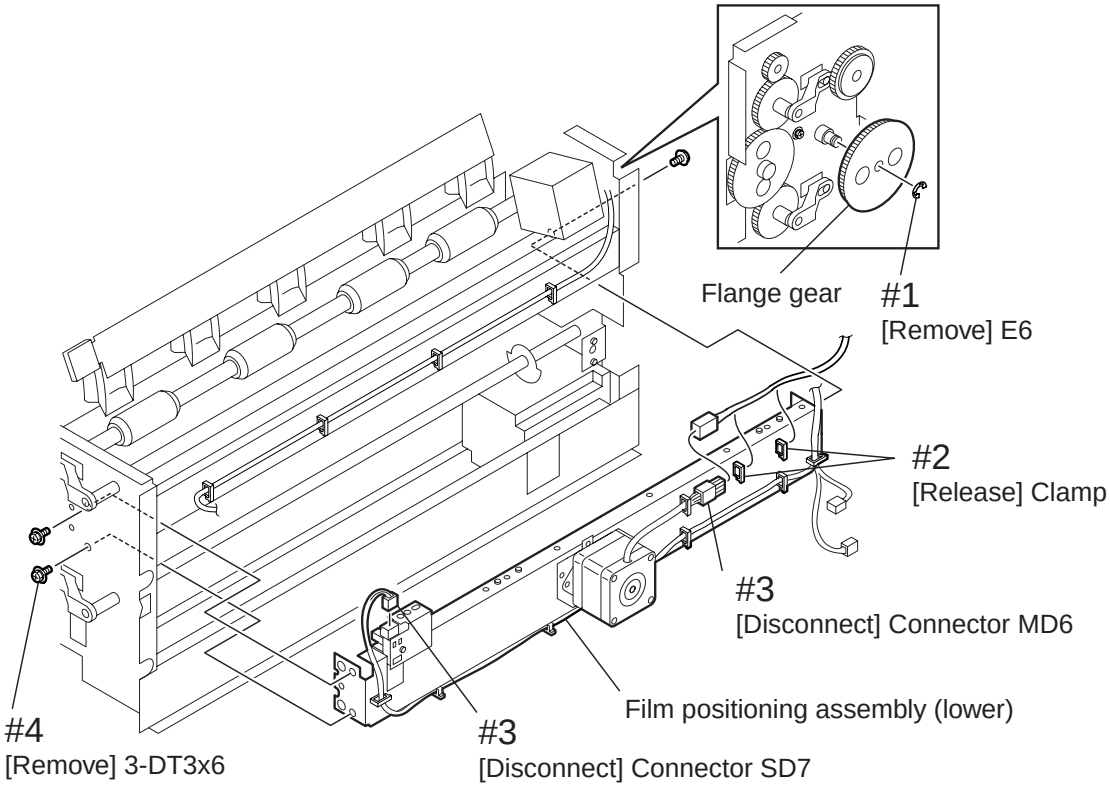
(2) Remove the grip position detection sensor bracket.

(3) Remove the connector bracket.



FP7C0506.EPS

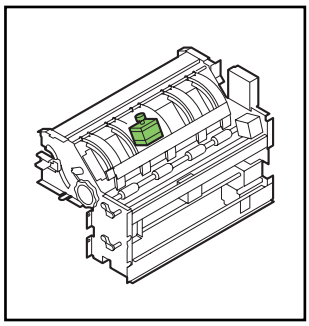
(4) Remove the film positioning assembly (lower).



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

5 - 6 Film Positioning Motor (Upper) (MD5)



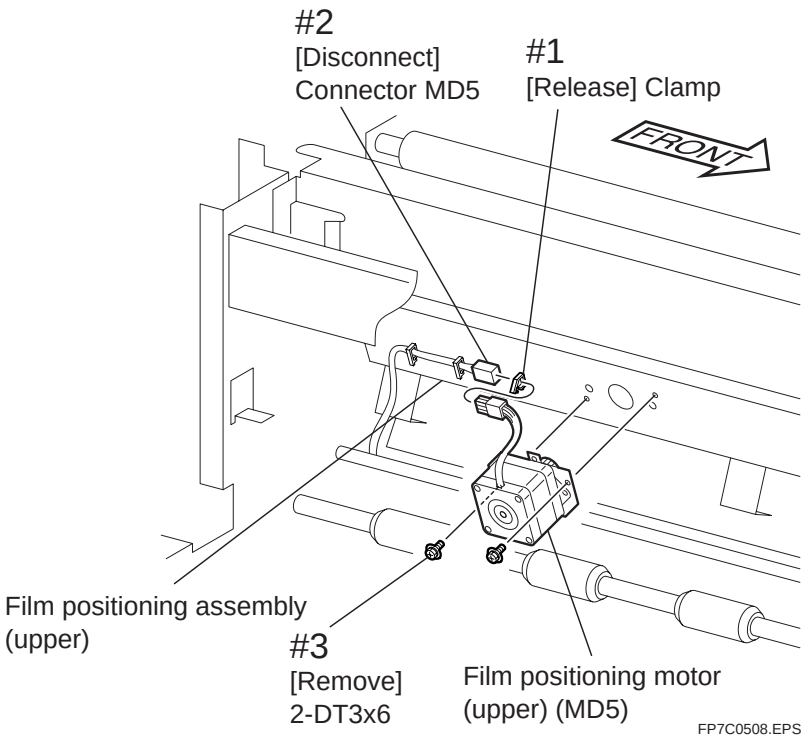
FP7C0526.EPS

■ Removing Procedure

(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the film positioning motor (upper) (MD5).

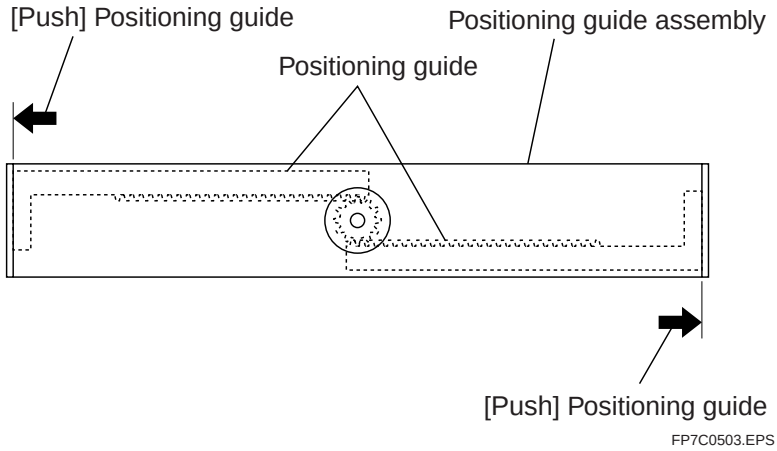


FP7C0508.EPS

■ Reinstalling Procedure

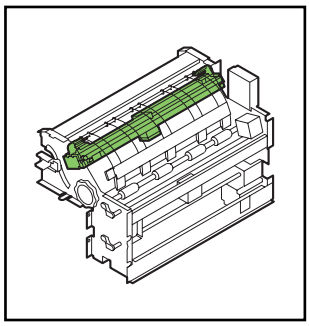
<INSTRUCTIONS>

Open the left and right positioning guides of the positioning guide assembly until they touch the sides when installing the film positioning motor (MD5).



Reinstall in the reverse order of removal.

Film Positioning Assembly (Upper)



FP7C0527.EPS

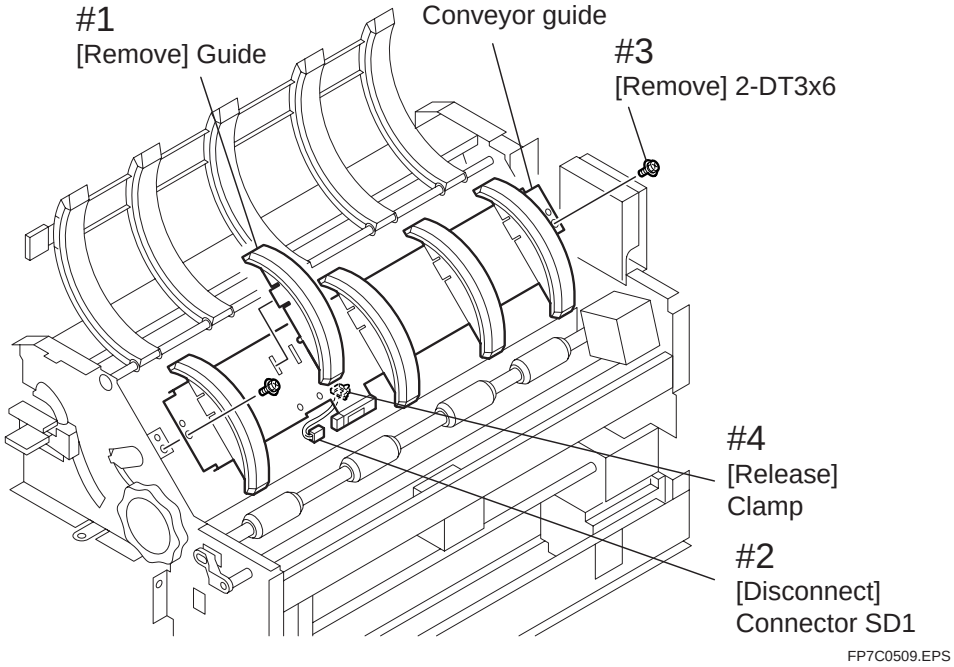
(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the film positioning motor (upper) (MD5).

☞ "5.6 Film Positioning Motor (Upper) (MD5)"

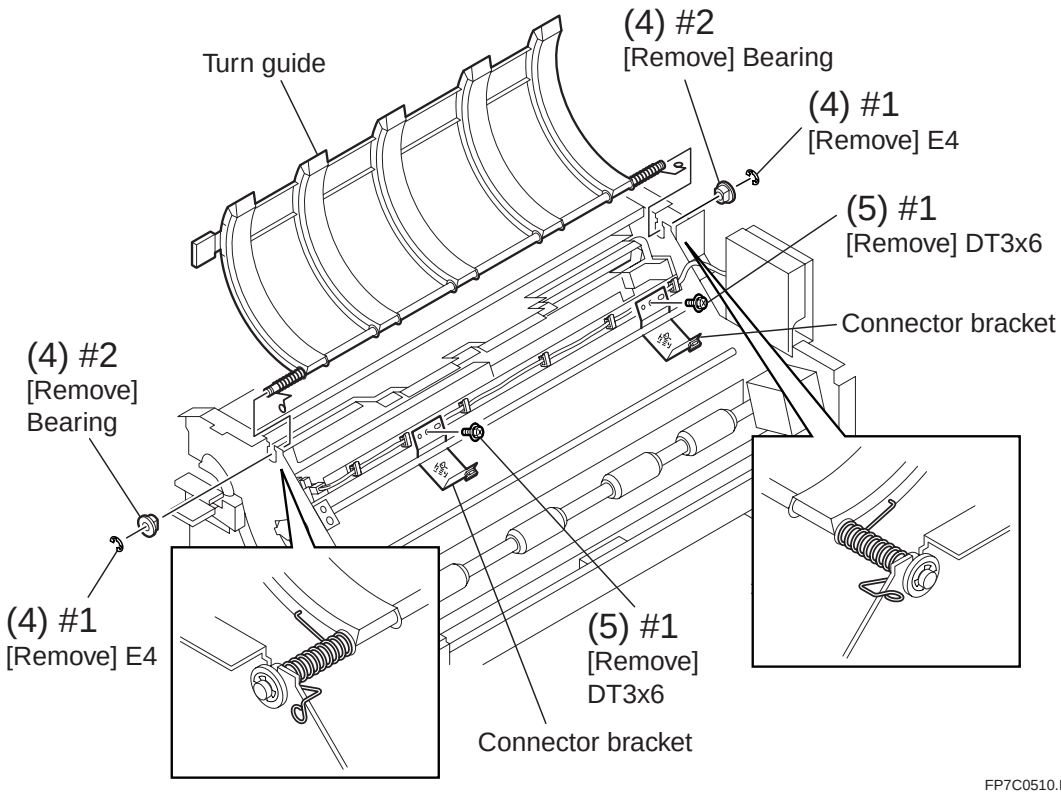
(3) Remove the conveyance guide.



FP7C0509.EPS

(4) Remove the turn guide.

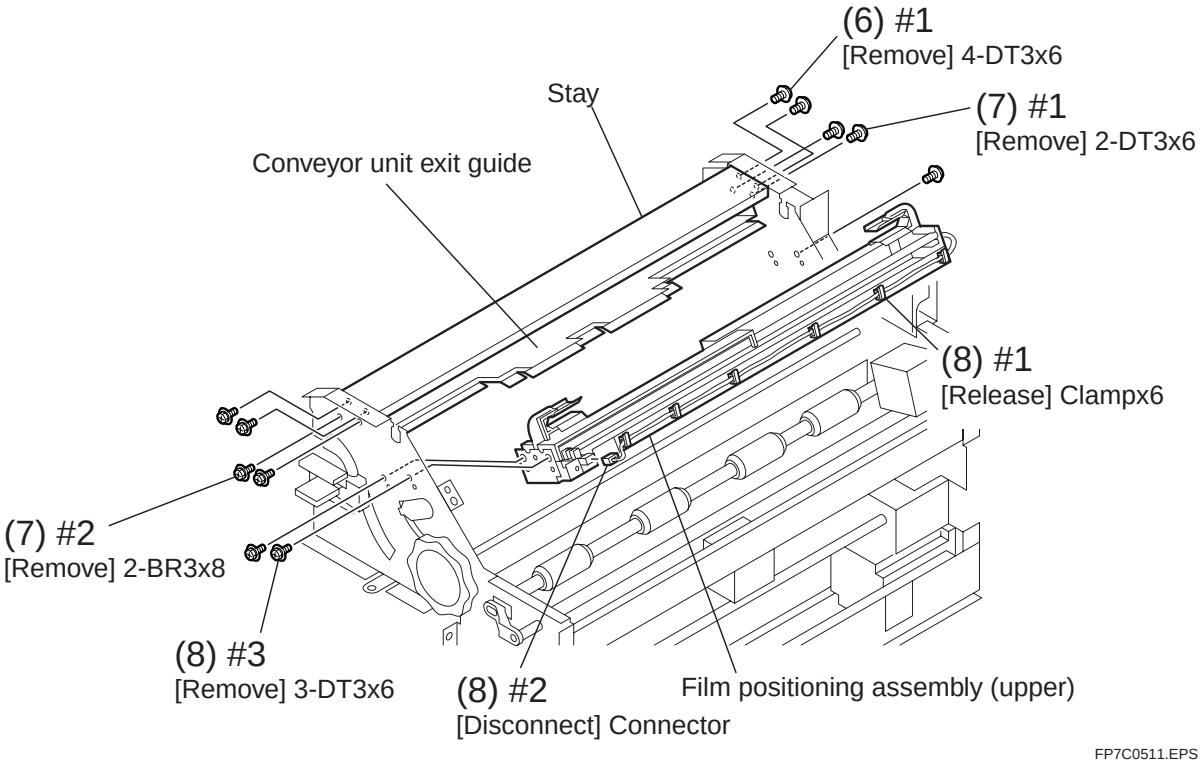
(5) Remove the connector bracket.



(6) Remove the stay.

(7) Remove the screws of the conveyor unit exit guide.

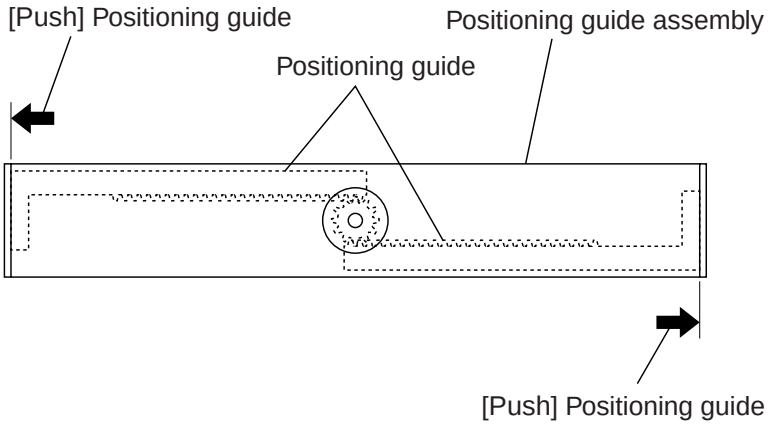
(8) Remove the film positioning assembly (upper).



■ Reinstalling Procedure

<INSTRUCTIONS>

Open the left and right positioning guides until they touch the sides when installing the film positioning motor (MD5).



Reinstall in the reverse order of removal.

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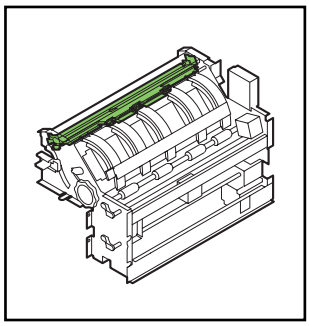
5 - 8 Conveyor Unit Exit Guide



FP7C0528.EPS

■ Removing Procedure

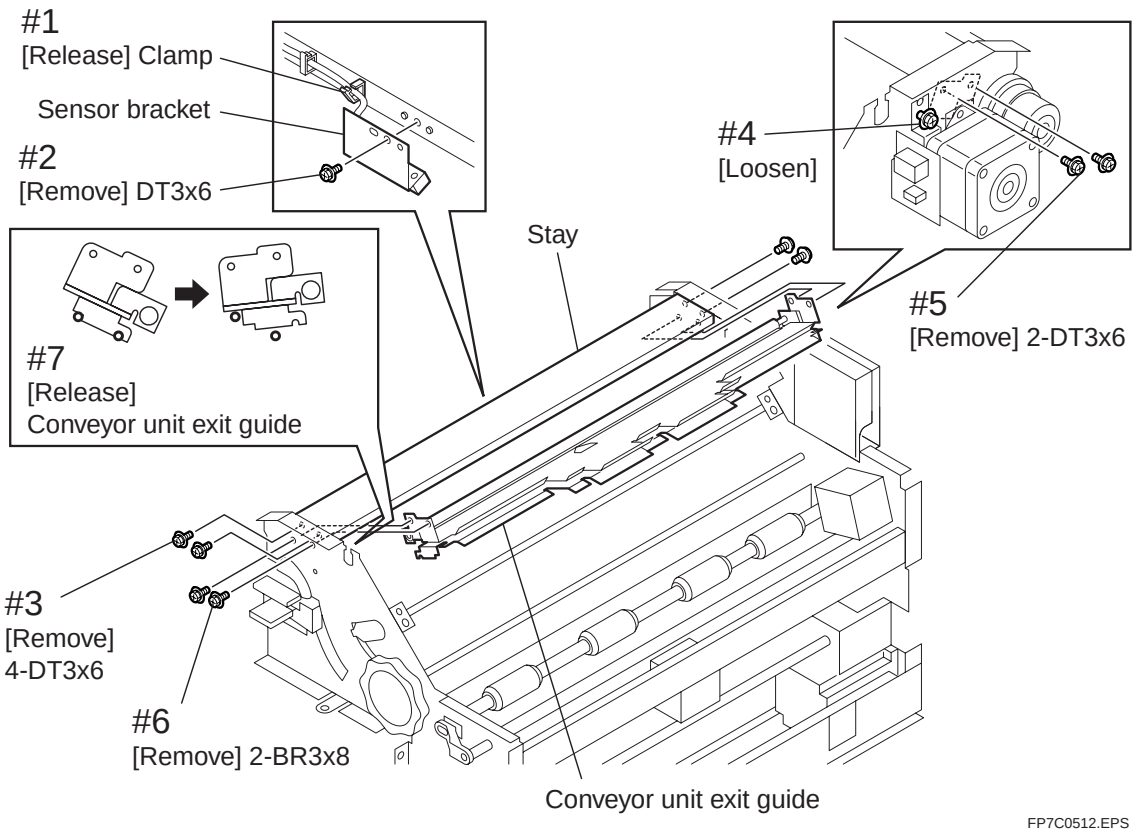
(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the sensor bracket.

(3) Remove the stay.

(4) Remove the conveyor unit exit guide.



FP7C0512.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

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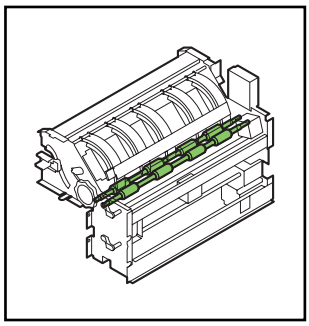
Conveyance Driving Roller (Upper)



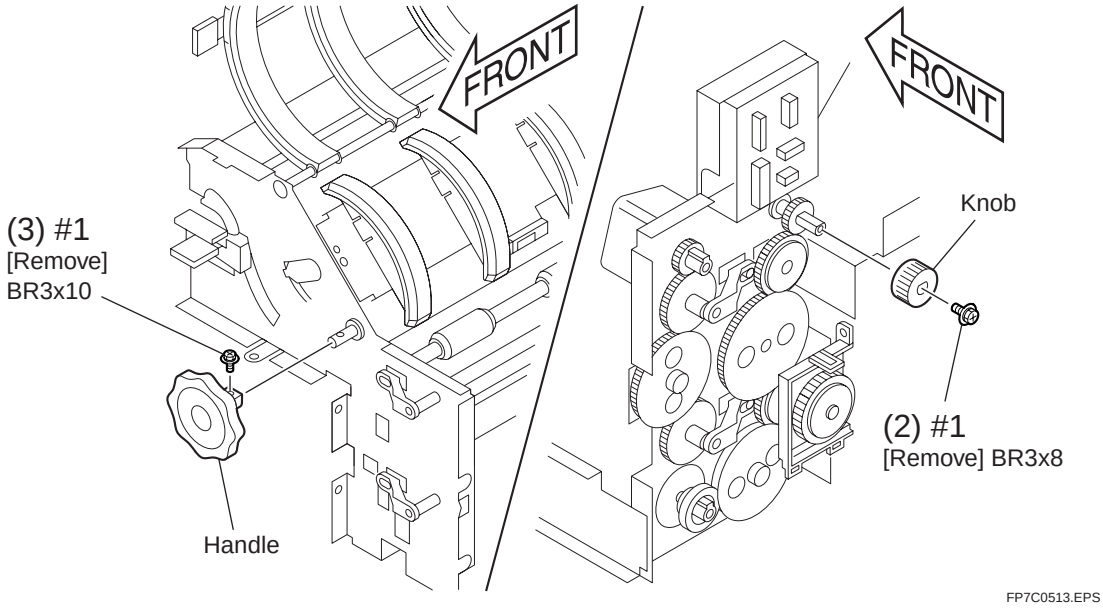
FP7C0529.EPS

(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the knob.

(3) Remove the handle.

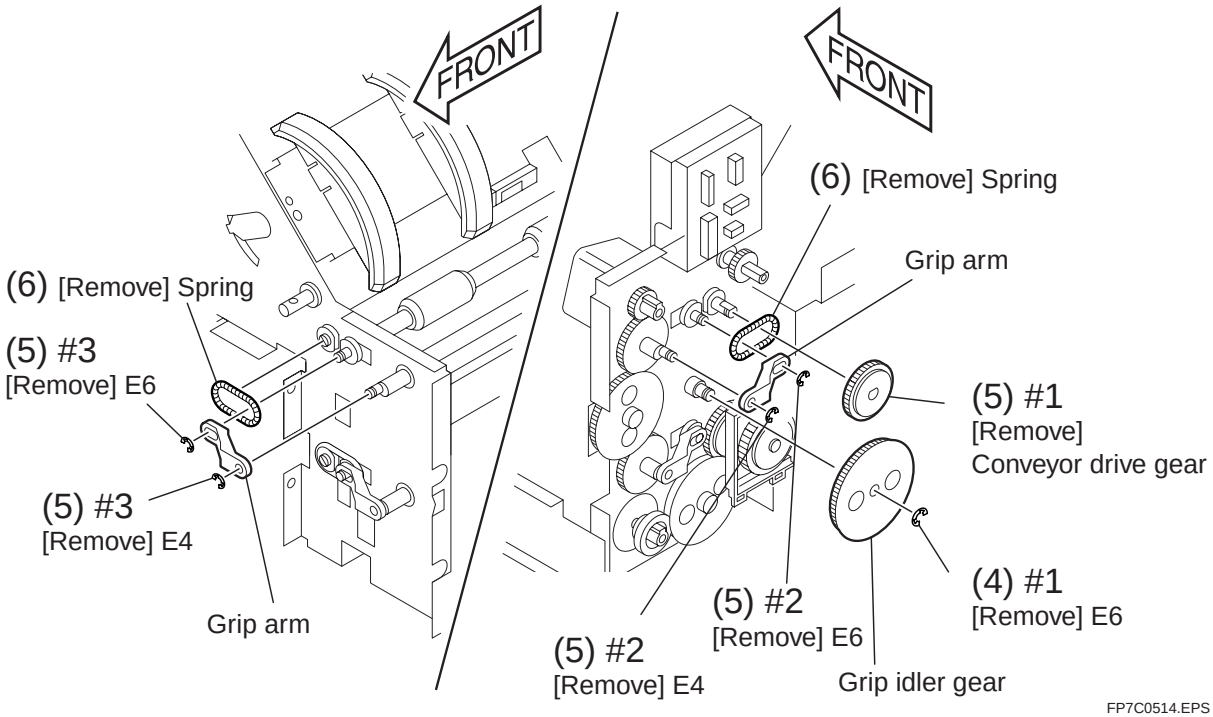


FP7C0513.EPS

(4) Remove the grip idler gear.

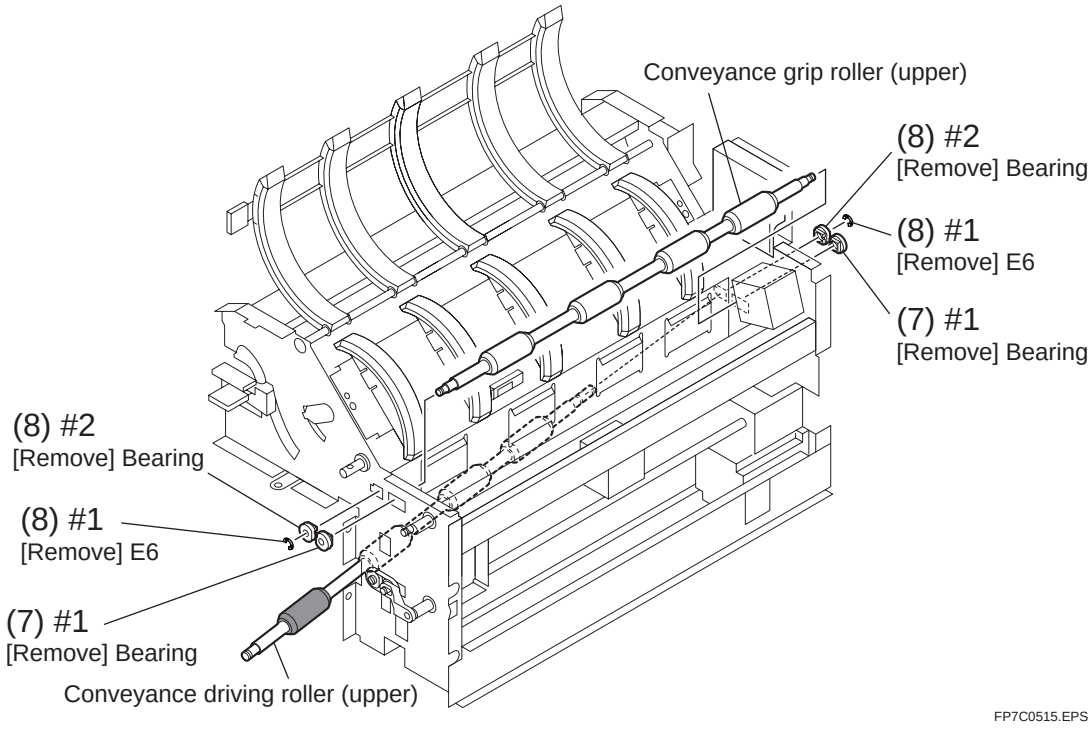
(5) Remove the grip arm.

(6) Remove the spring.



(7) Remove the conveyance grip roller (upper).

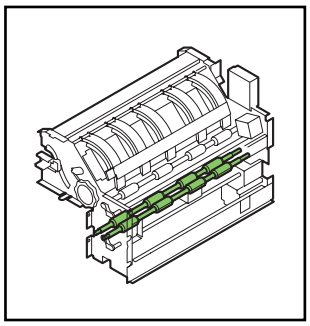
(8) Remove the conveyance driving roller (upper).



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

Conveyance Driving Roller (Lower)



FP7C0530.EPS

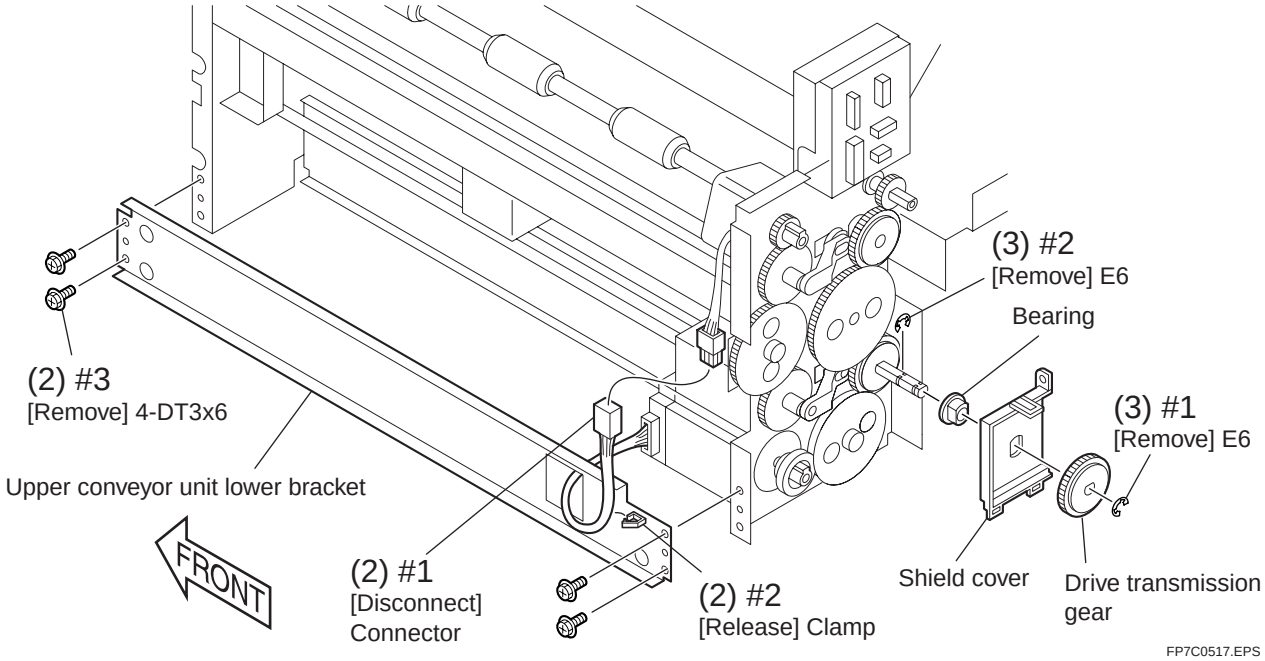
■ Removing Procedure

(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the upper conveyor unit lower bracket.

(3) Remove the drive transmission gear.

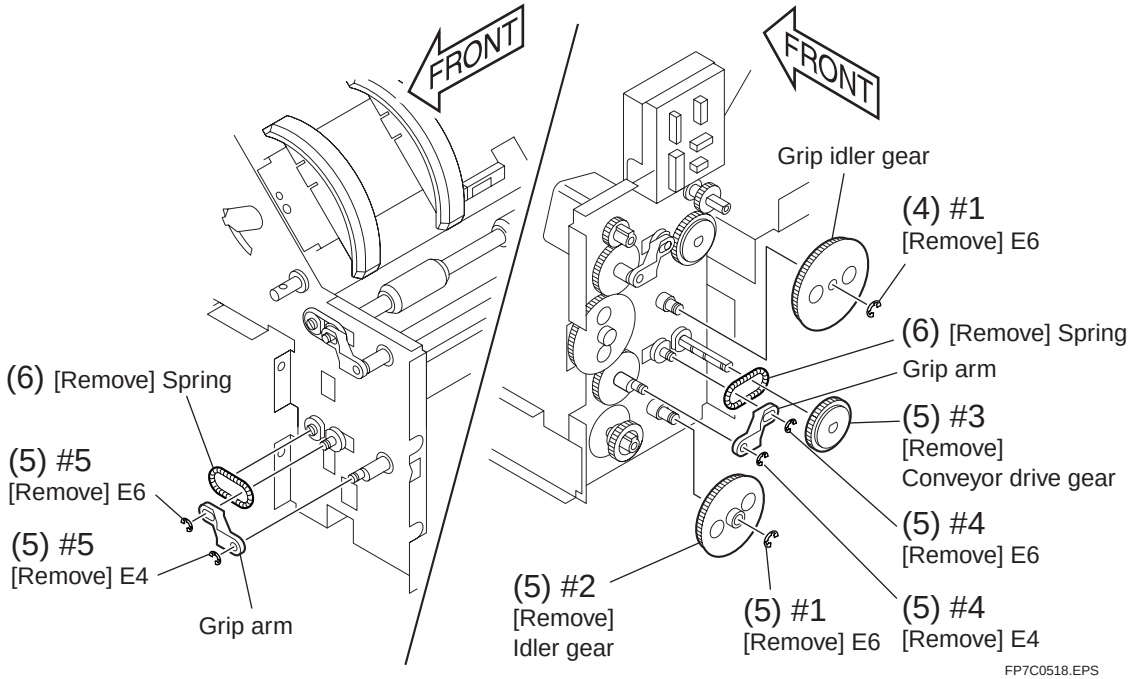


FP7C0517.EPS

(4) Remove the grip idler gear.

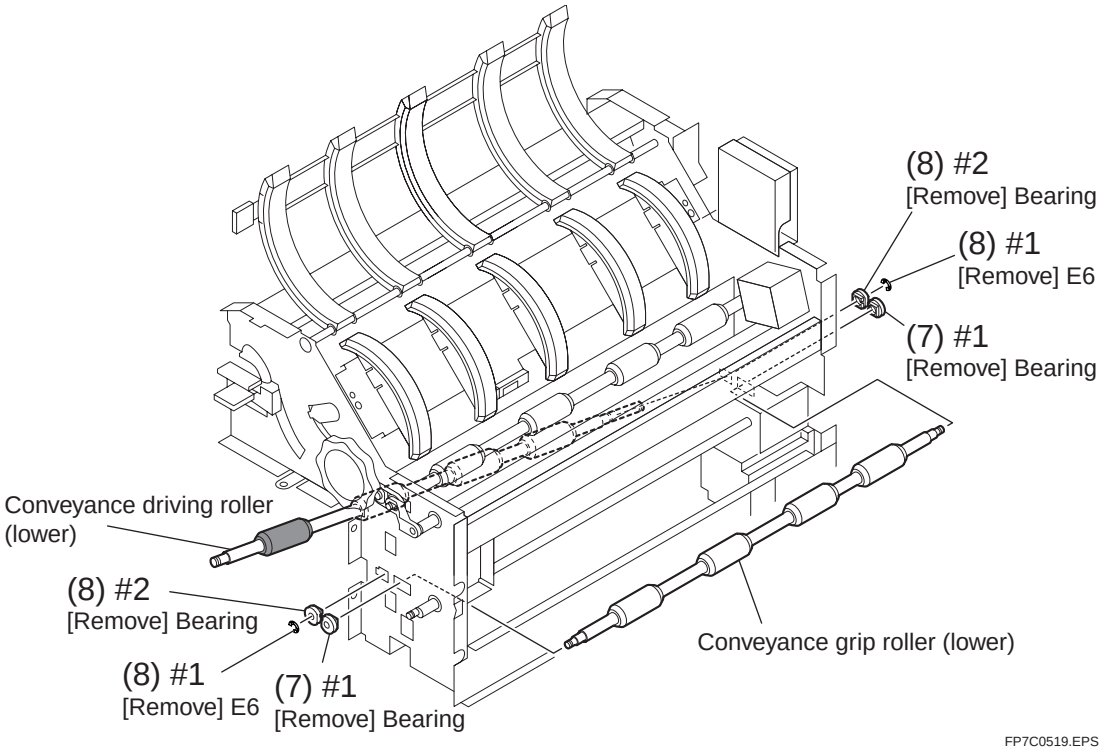
(5) Remove the grip arm.

(6) Remove the spring.



(7) Remove the conveyance grip roller (lower).

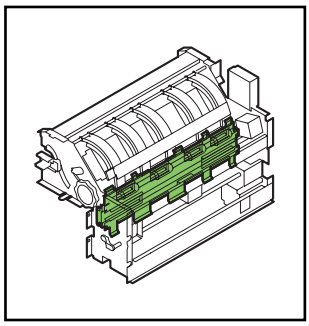
(8) Remove the conveyance driving roller (lower).



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

5 - 11 Conveyor Unit Guide



FP7C0531.EPS

■ Removing Procedure

(1) Remove the upper conveyor unit.

☞ "5.1 Upper Conveyor Unit"

(2) Remove the film positioning assembly (lower).

☞ "5.5 Film Positioning Assembly (Lower)"

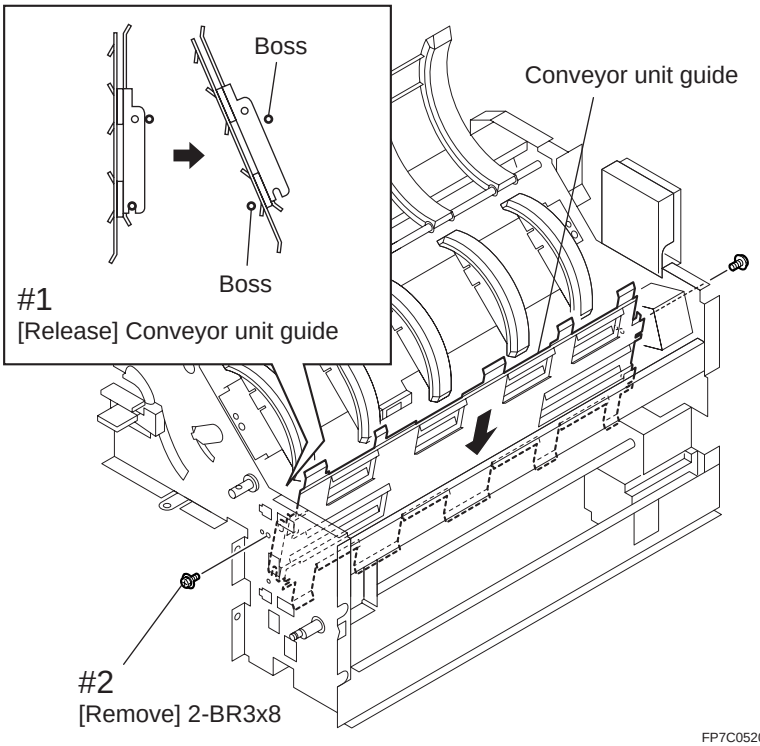
(3) Remove the conveyance driving roller (upper).

☞ "5.9 Conveyance Driving Roller (Upper)"

(4) Remove the conveyance driving roller (lower).

☞ "5.10 Conveyance Driving Roller (Lower)"

(5) Remove the conveyor unit guide.



FP7C0520.EPS

■ Reinstalling Procedure

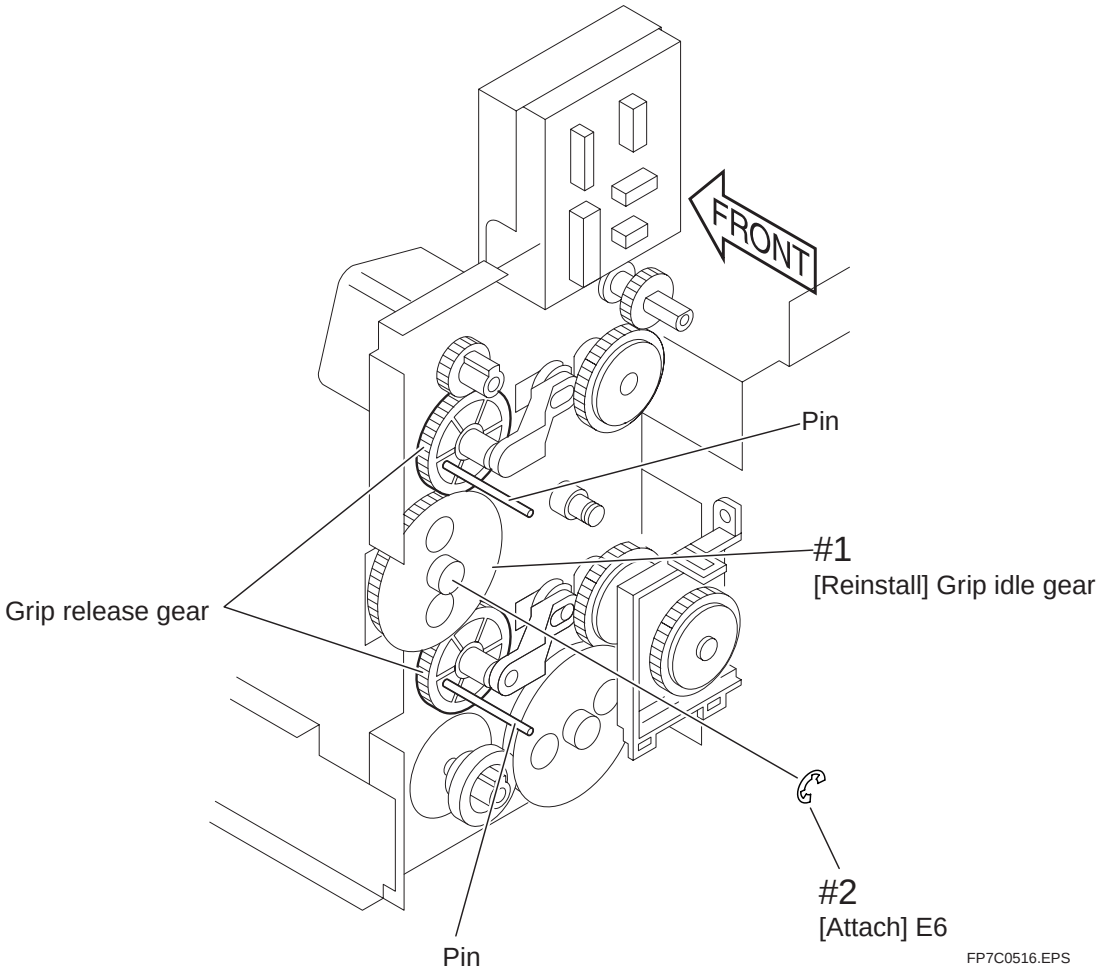
Reinstall in the reverse order of removal.

5 - 12 Grip Idle Gear

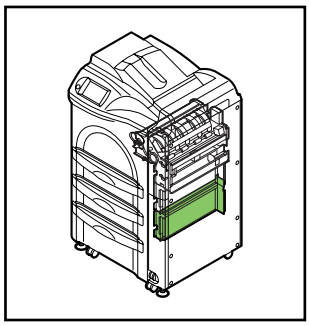
If the grip idle gear of the upper conveyor unit has been removed, reinstall the gear as following.

■ Adjusting Procedure

(1) Align the holes on the upper and lower grip release gears with the holes on the side frame, insert the pins of a hexagonal wrench into the holes to adjust the upper and lower arm phases, and then reintall the grip idle gear.



Lower Conveyor Unit

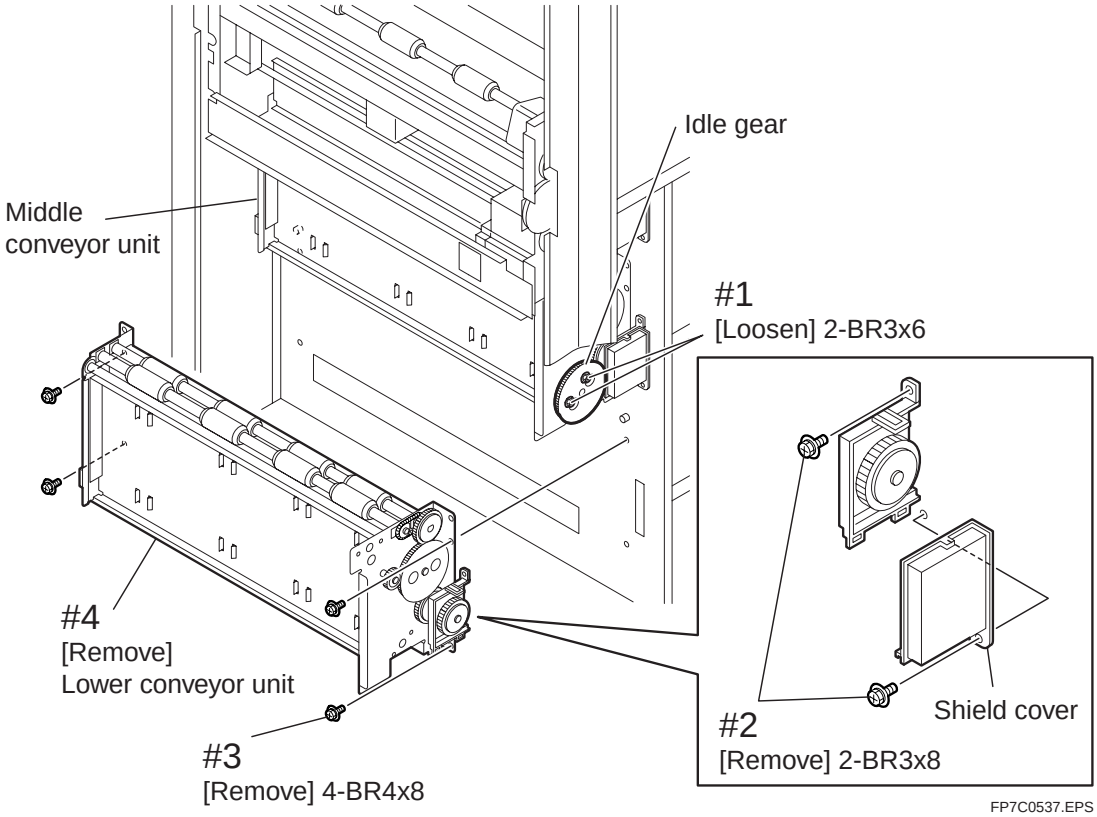


FP7C0536.EPS

■ Removing Procedure

(1) Remove the following covers.
- Right side cover
- Rear cover

(2) Remove the lower conveyor unit.



FP7C0537.EPS

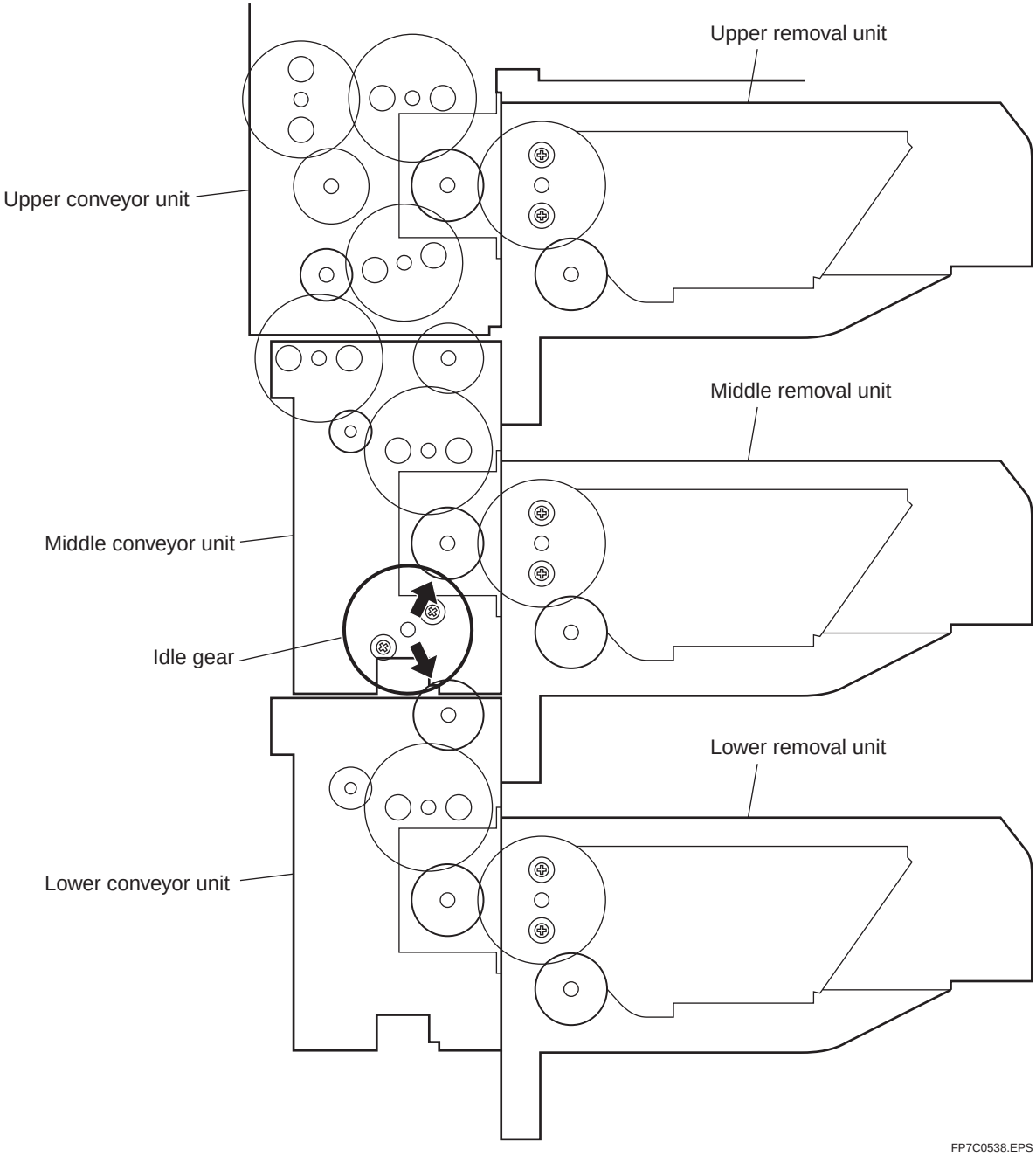
■ Reinstalling Procedure

Reinstall in the reverse order of removal.

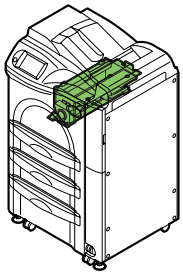
■ CHECK/Adjusting Procedure

Perform the following adjustment if the idle gear of the middle conveyor unit has been removed or if the idle gear has been loosened.

(1) Secure the gear while pressing the flange of the idle gear against the gears in the arrow direction shown below.

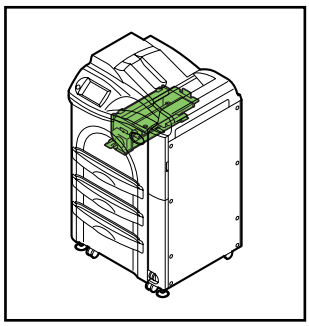


6 SUB-SCANNING UNIT



FP7Z0611.EPS

6 - 1 Sub-Scanning Unit



FP7C0609.EPS

6.1.1 Removal/Reinstallation

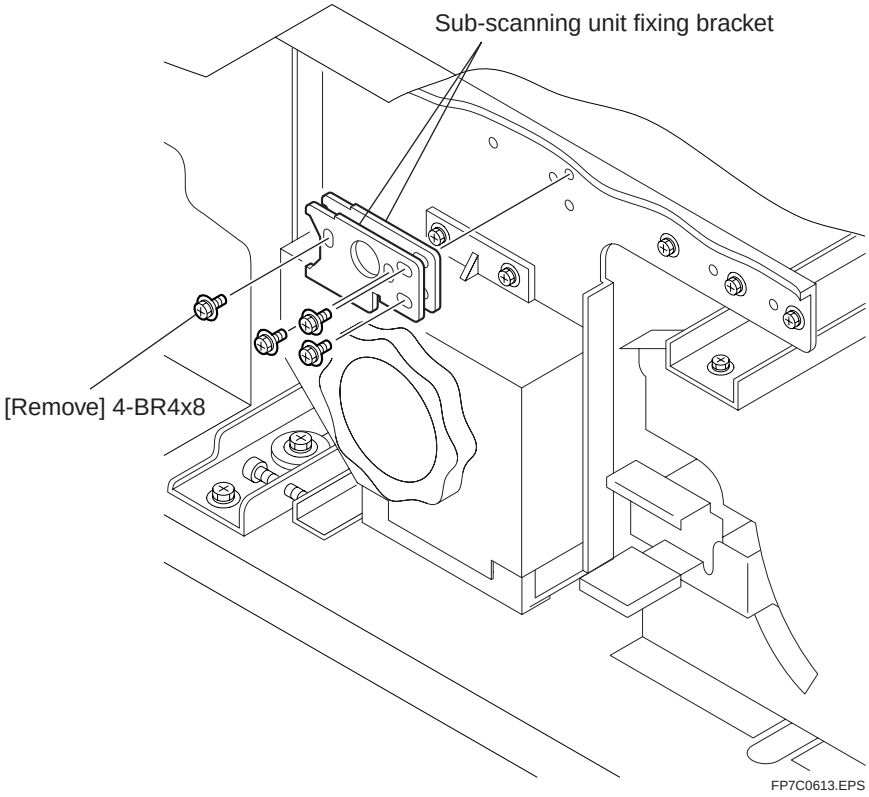
■ Removing Procedure

(1) Insert the shutter into the film tray.

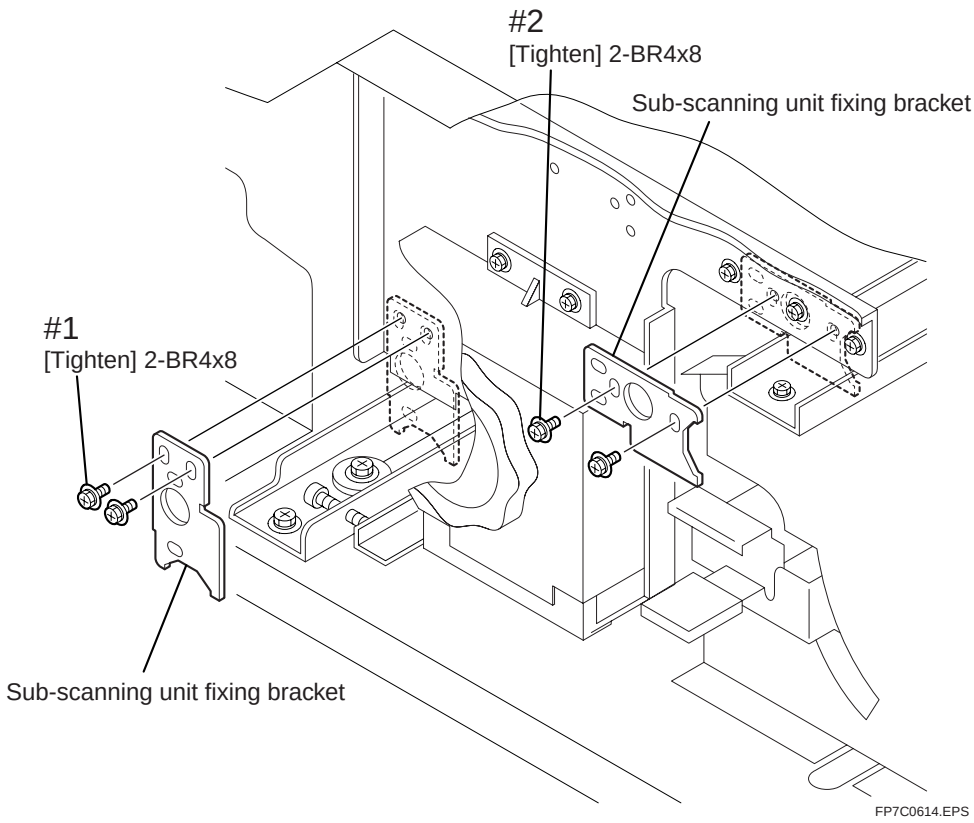
(2) Remove the following covers.

- Right side cover
- Rear cover

(3) Remove the sub-scanning unit fixing bracket.



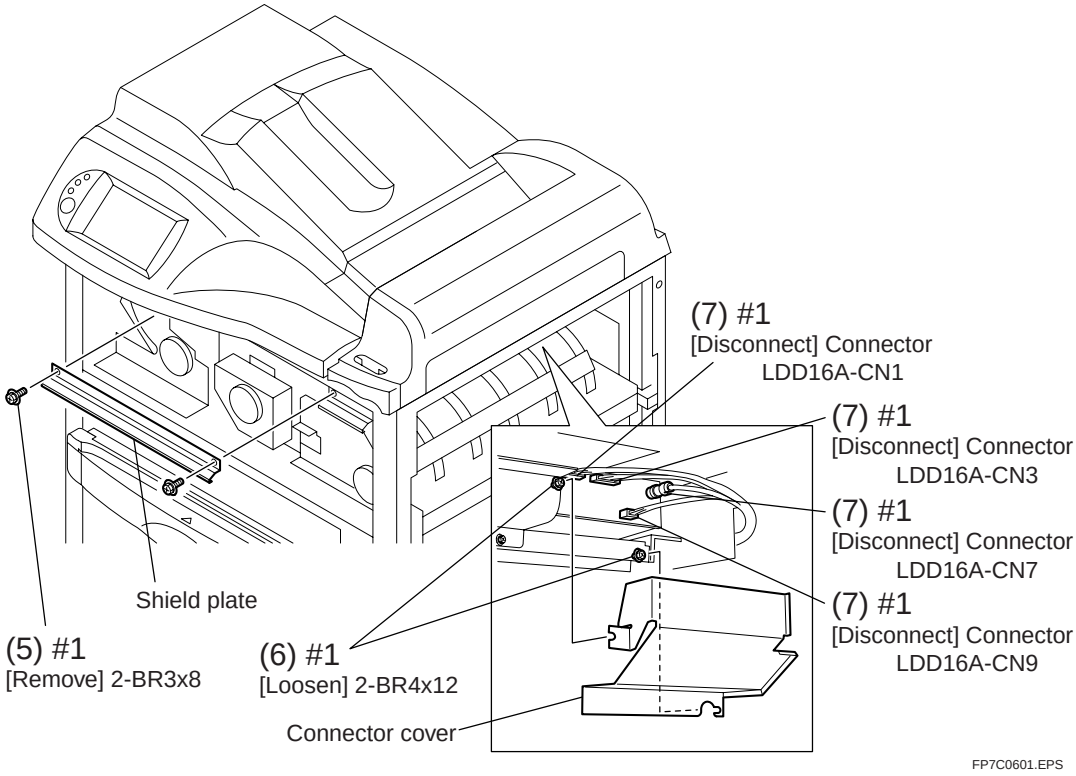
(4) Reinstall the sub-scanning unit fixing bracket at the position shown below.

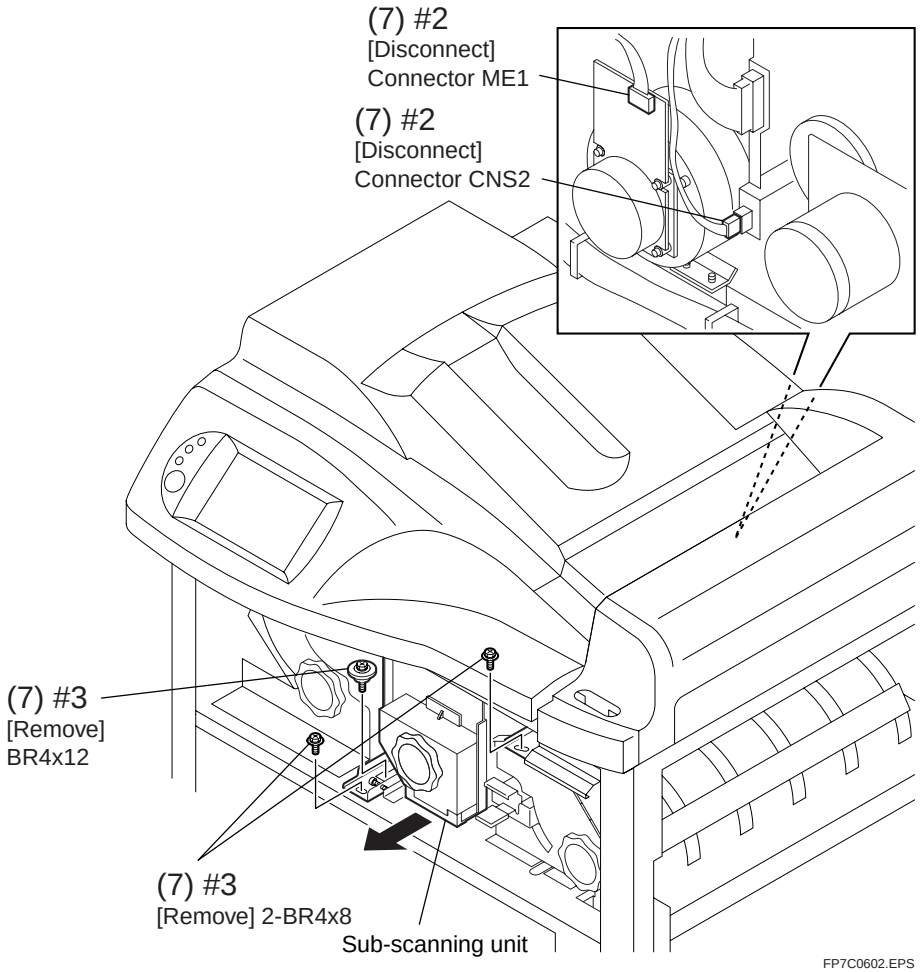


(5) Remove the shield plate.

(6) Remove the connector cover.

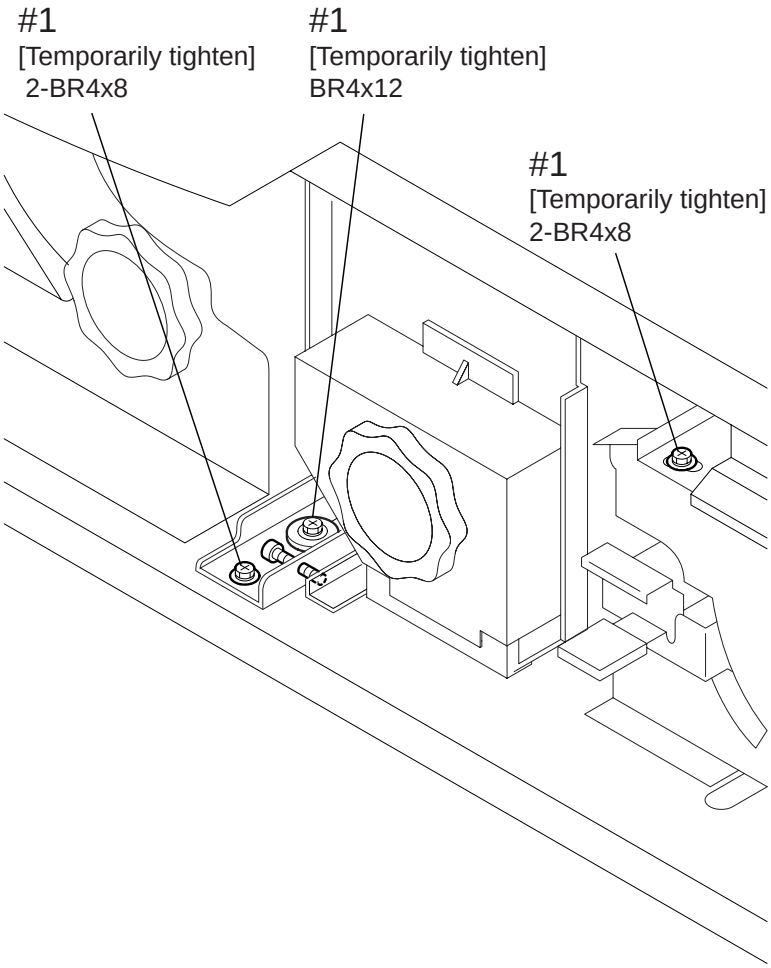
(7) Remove the sub-scanning unit.





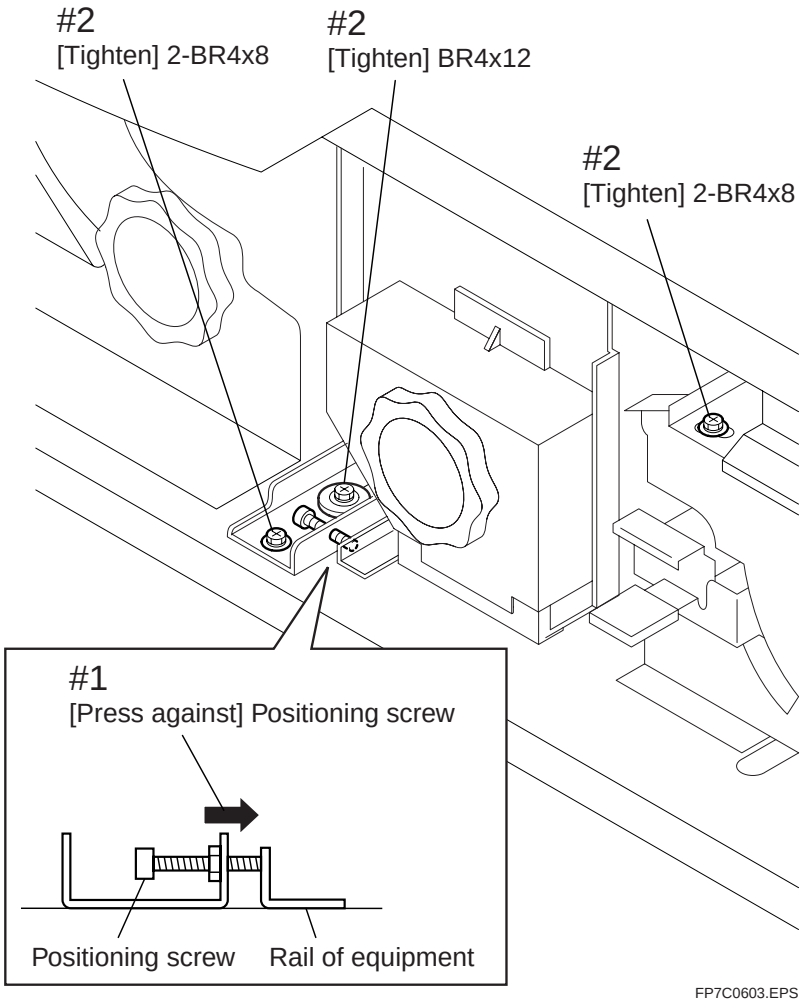
■ Reinstalling Procedure

(1) Insert the sub-scanning unit into the equipment, and temporarily secure with the screws.



FP7C0616.EPS

(2) Press the positioning screw against the rail, and secure the sub-scanning unit.



(3) Remove the sub-scanning unit fixing bracket, and reinstall it to its original position.

CAUTION

When removing the sub-scanning unit fixing bracket, be careful never remove the screws painted in red.

■ CHECK/Adjusting Procedure

Check that connectors are connected properly.

6.1.2 Adjusting the Sub-Scanning Unit Positioning Screw

When adjusting the sub-scanning unit positioning screw, or if the positioning screws has been turned accidentally, perform the following procedure.

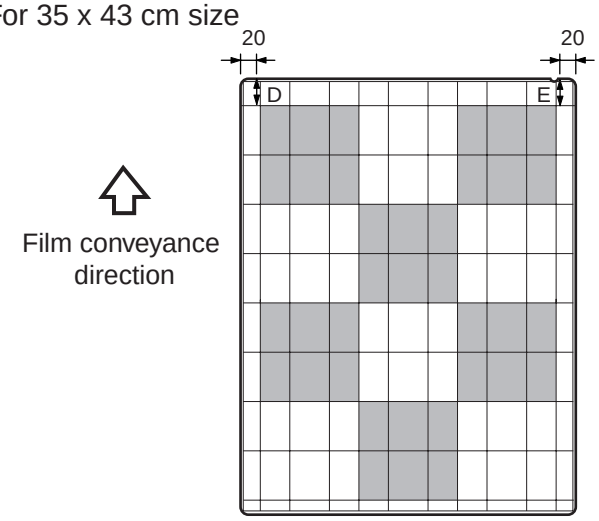
■ Adjusting Procedure

(1) Print the grid pattern.

☞ “Service Mode, [2-5] Grid”.

(2) Measure the “D” and “E” on the printed film and check that they meet the specified values.

For 35 x 43 cm size

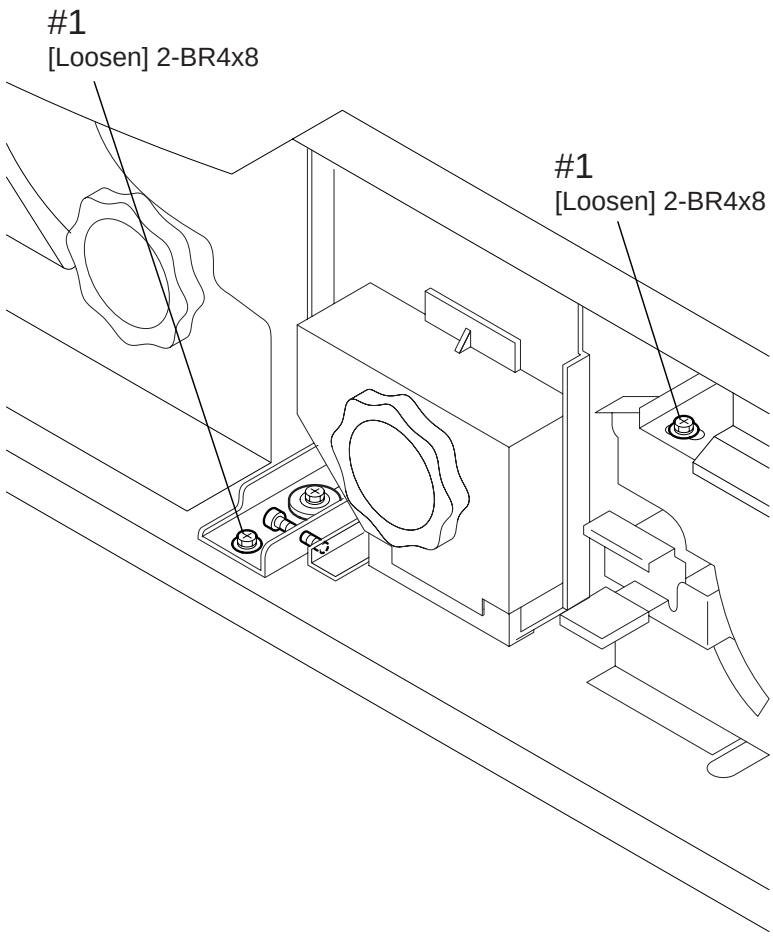


(Unit: mm)

Position	35 x 43cm size	26 x 36 cm size	20 x 25 cm size
D, E	14.5 ±1.0	27.5 ±1.0	26.0 ±1.0
| D - E |	≤ 1.2	≤ 1.2	≤ 1.2

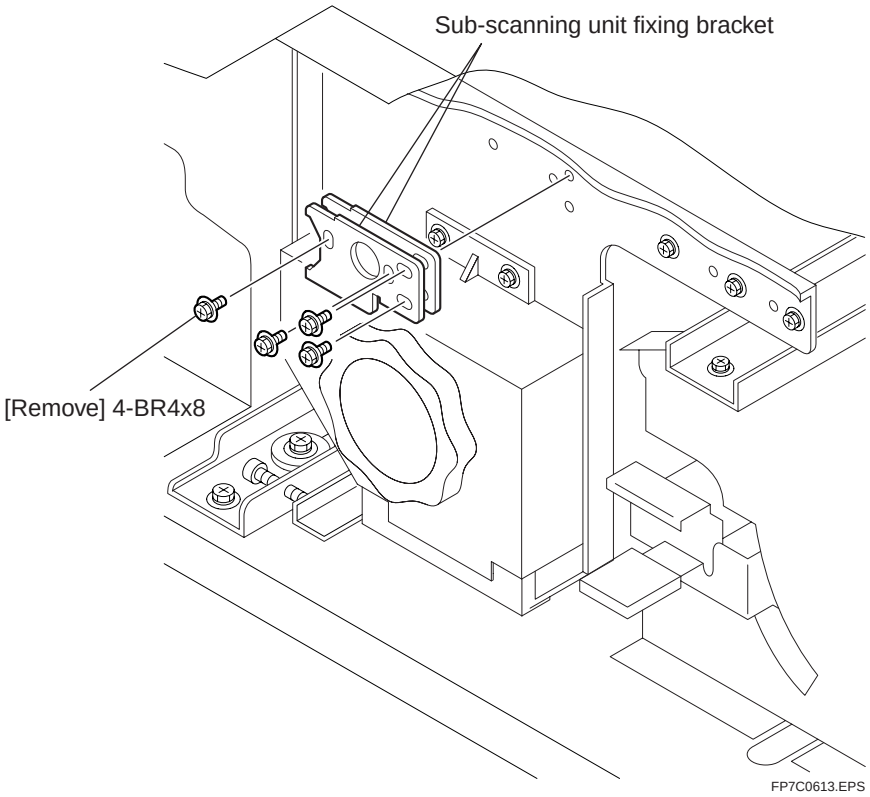
FP7C0622.EPS

(3) If the measured values are not the specified values, loosen the screws securing the sub-scanning unit.

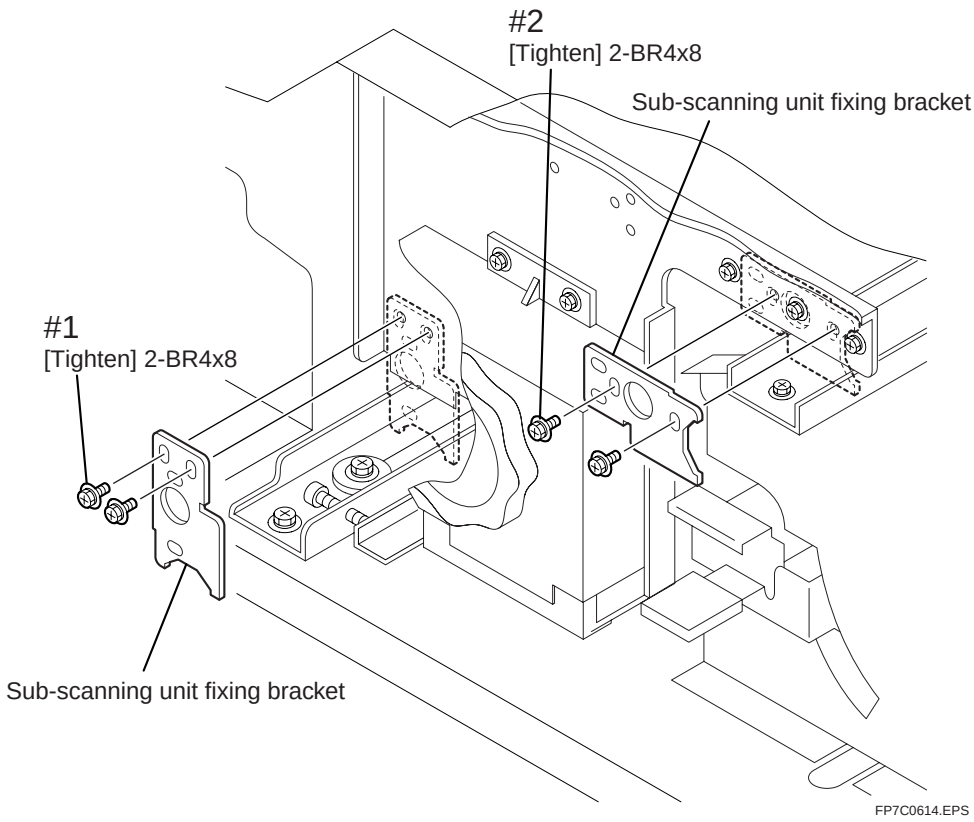


FP7C0617.EPS

(4) Remove the sub-scanning unit fixing bracket.



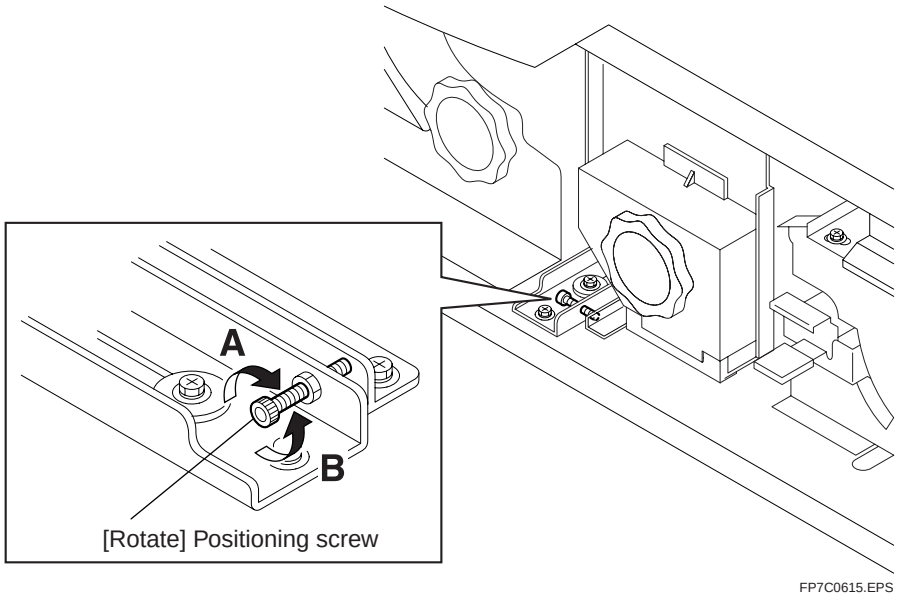
(5) Reinstall the sub-scanning unit fixing bracket at the position shown below.



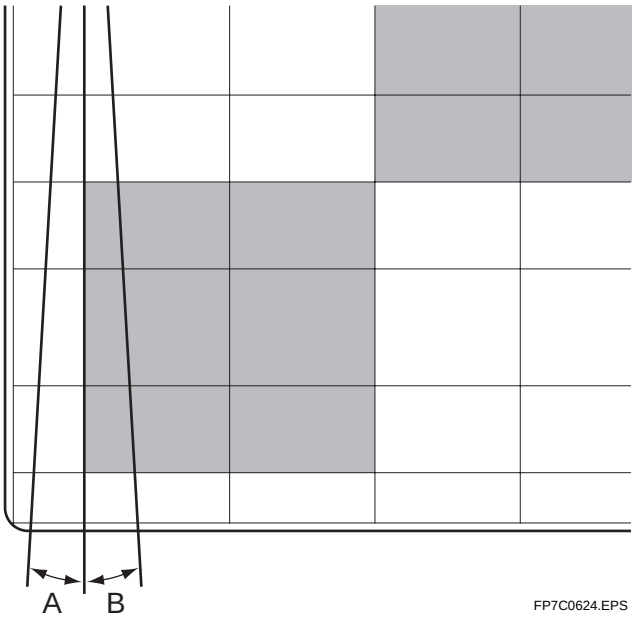
(6) Rotate the positioning screw in the clockwise or counterclockwise direction and adjust.

<NOTE>

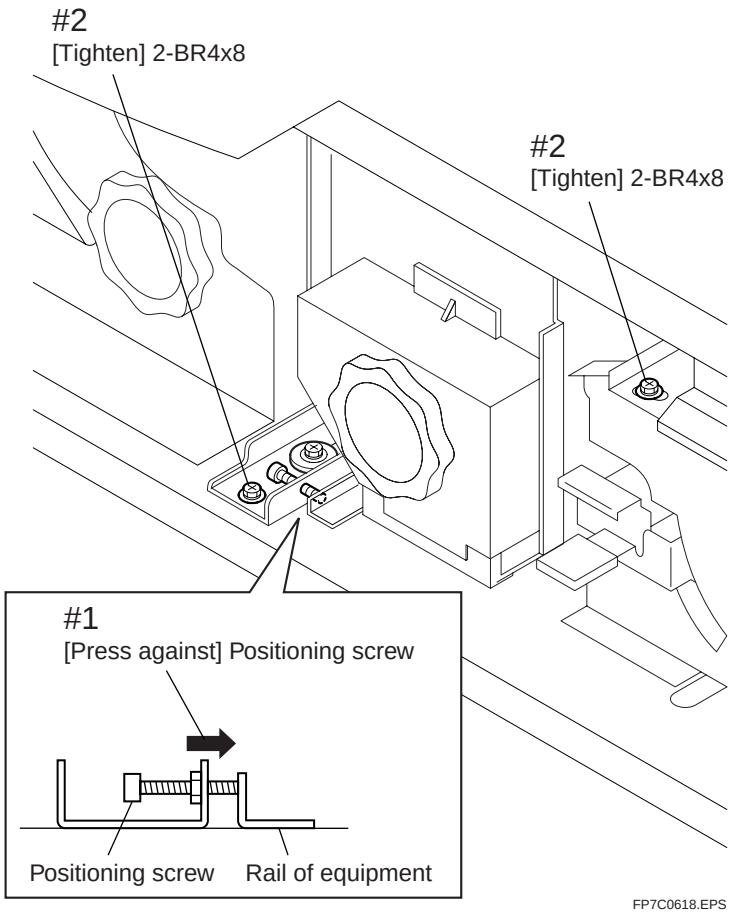
Rotating once in the clockwise or counterclockwise direction changes the “D” and “E” on the printed film by about 0.5 mm.



Film conveyance direction



(7) Press the positioning screw against the rail, and secure the sub-scanning unit.

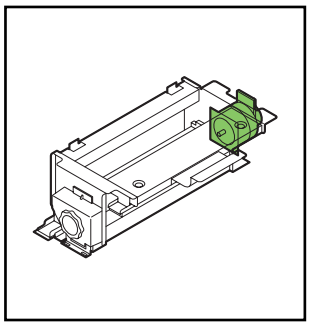


(8) Print the grid pattern.

☞ “Service Mode, [2-5] Grid”.

(9) Measure the “D” and “E” on the printed film and check that they meet the specified values.

(10) If the measured values are not the specified values, repeat steps (3) to (9).



FP7C0610.EPS

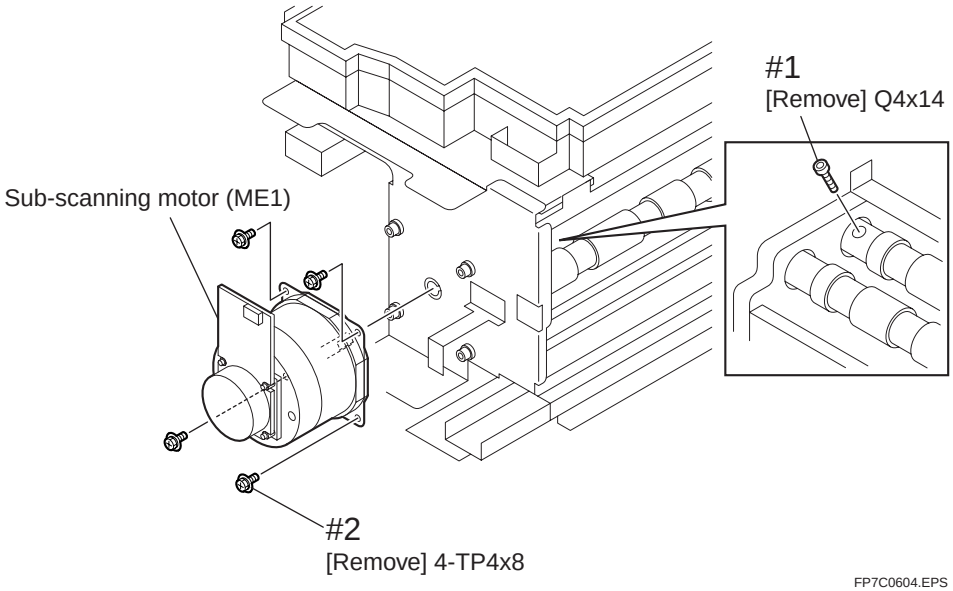
6.2.1 Removal/Reinstallation

■ Removing Procedure

(1) Remove the sub-scanning unit.

☞ "6.1 Sub-Scanning Unit"

(2) Remove the sub-scanning motor (ME1).



FP7C0604.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

6.2.2 Adjustment When Replacing Sub-scanning Motor

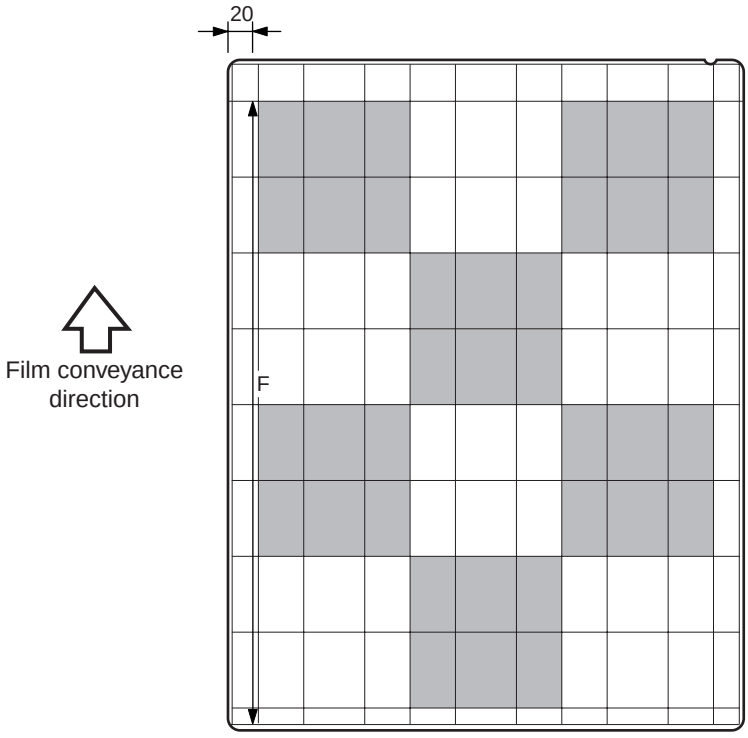
If the sub-scanning motor (ME1) has been replaced, check/adjust the film conveyance amount as follows.

(1) Print the grid pattern.

☞ “Service Mode, [2-5] Grid”.

(2) Measure “F” on the printed film and check that it meets the specified value.

For 35 x 43 cm size



(Unit: mm)

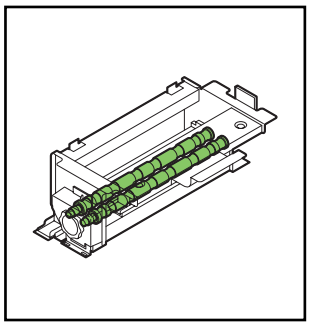
Position	35 x 43 cm size	26 x 36 cm size	20 x 25 cm size
F	413.0 ±1.2	226.5 ±1.0	225.0 ±1.0

FP7C0623.EPS

(3) If the measured values are not the specified values, adjust the film conveyance amount.

☞ “Service Mode, [5-2-3] Adjusting subscanner”.

Sub-Scanning Roller



FP7C0611.EPS

■ Removing Procedure

(1) Remove the sub-scanning unit.
☞ "6.1 Sub-Scanning Unit"

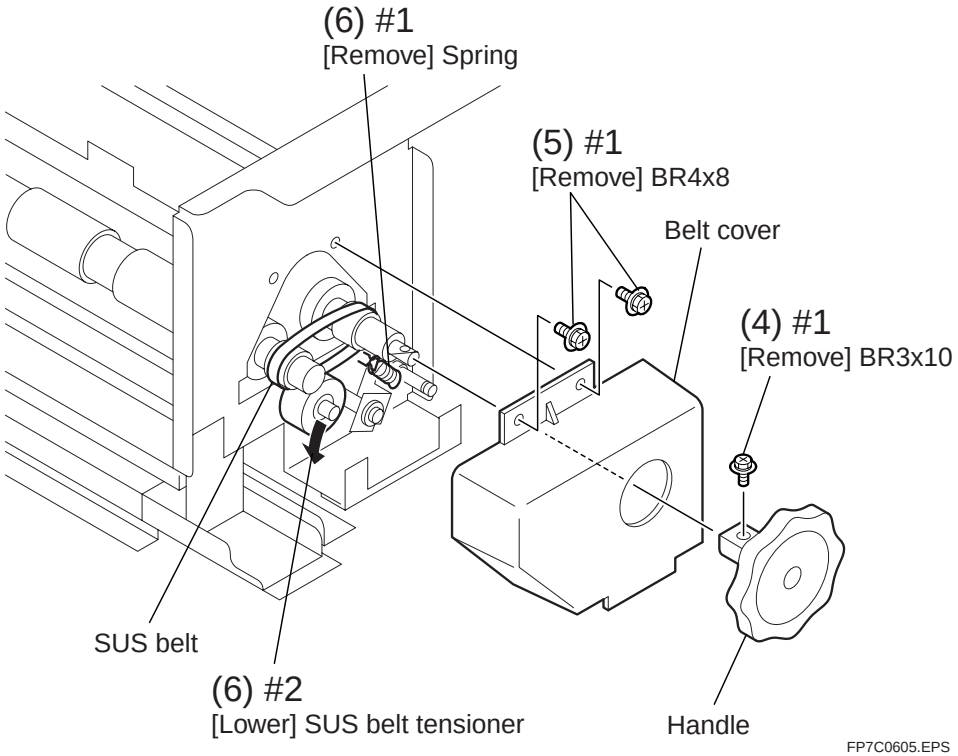
(2) Remove the scanner unit.
☞ "7.1 Scanner Unit"

(3) Remove the sub-scanning motor (ME1).
☞ "6.2 Sub-Scanning Motor (ME1)"

(4) Remove the handle.

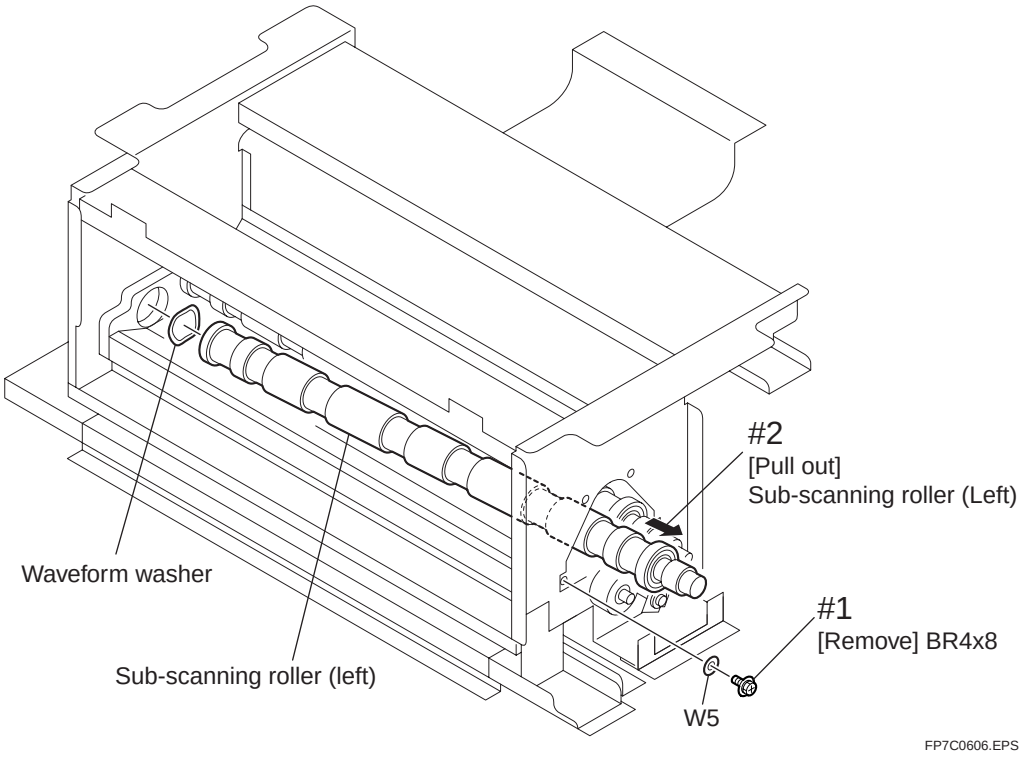
(5) Remove the belt cover.

(6) Remove the SUS belt.



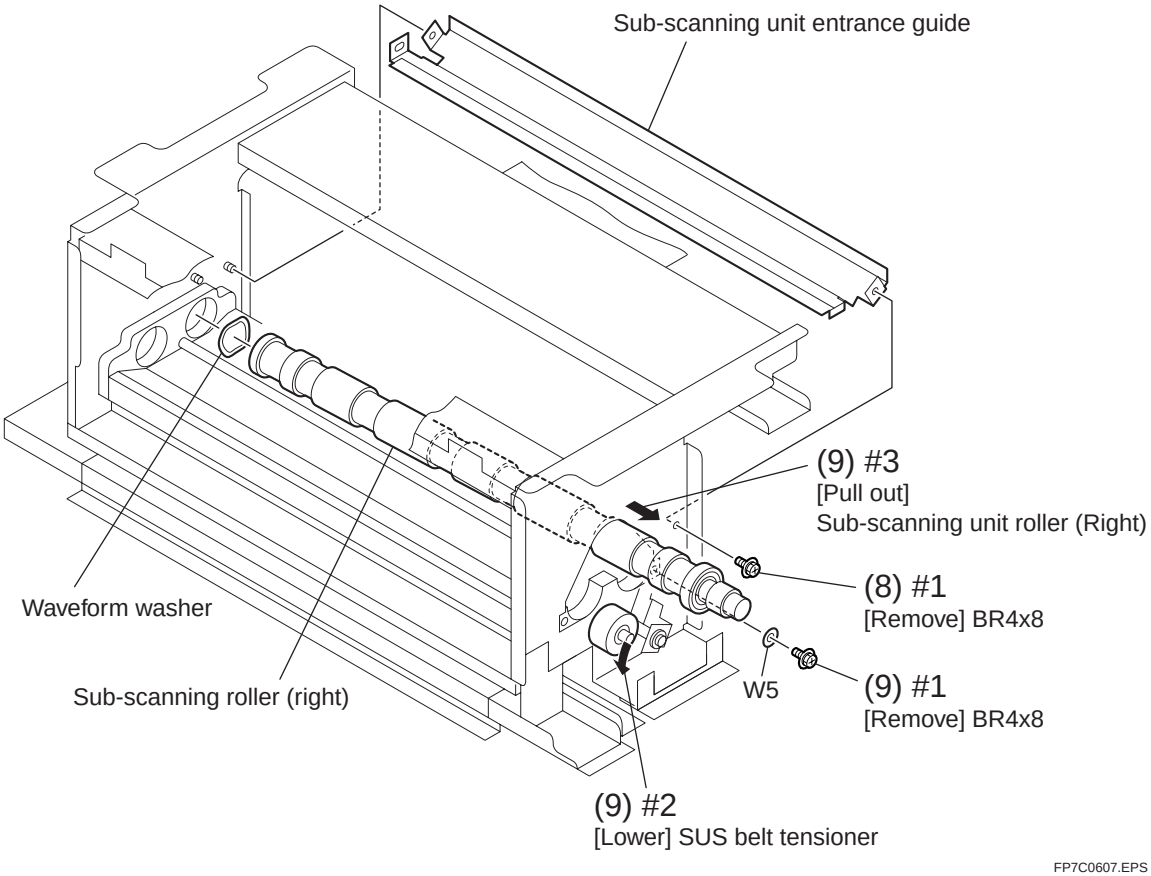
FP7C0605.EPS

(7) Remove the sub-scanning roller (left).



(8) Remove the sub-scanning unit entrance guide.

(9) Remove the sub-scanning roller (right).



■ Reinstalling Procedure

<NOTE>

- When installing the sub-scanning roller, be sure to reinstall the waveform washer.
- After reinstalling the sub-scanning roller, rotate the roller four or five times with the hand, and check that it turns smoothly.

Reinstall in the reverse order of removal.

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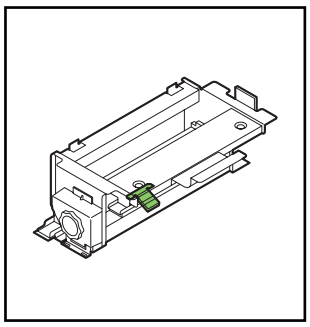
6 - 4 Film Leading Edge Detection Sensor (SE1)



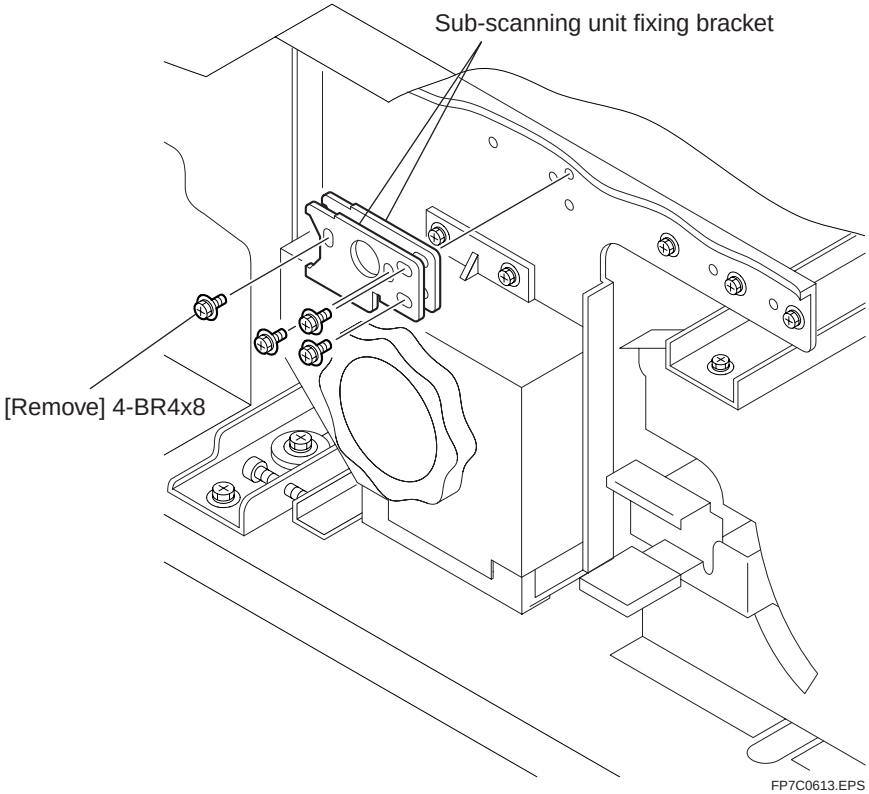
FP7C0612.EPS

■ Removing Procedure

(1) Insert the shutter into the film tray.

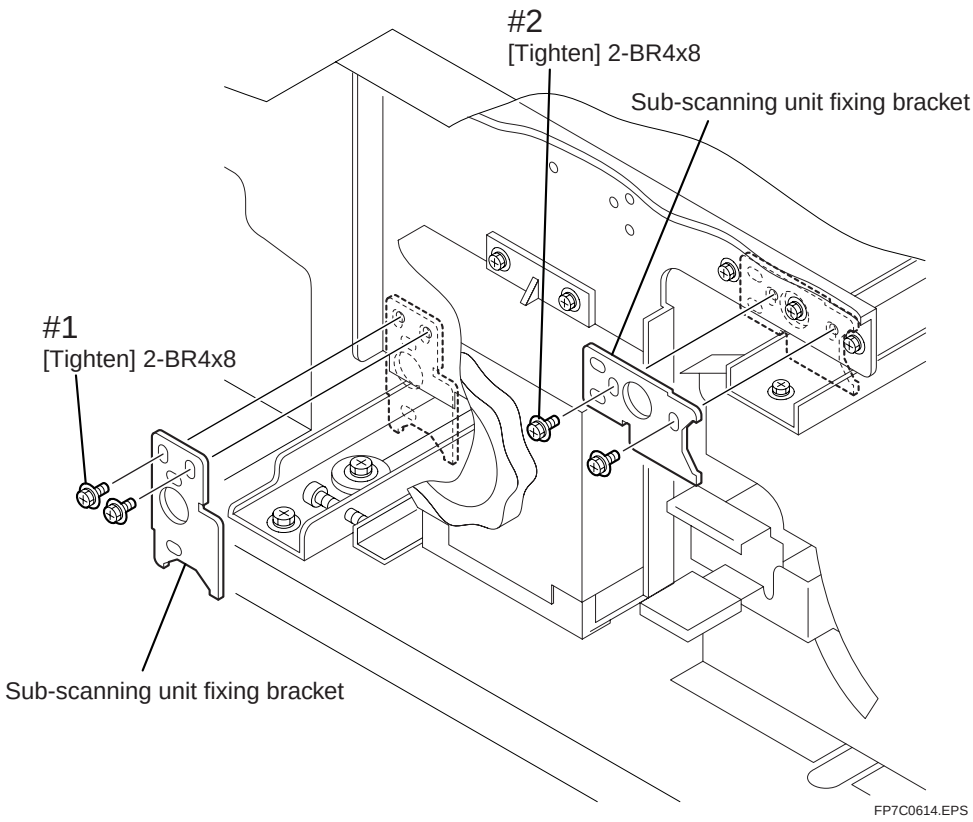
(2) Remove the following covers.
- Right side cover
- Rear cover

(3) Remove the sub-scanning unit fixing bracket.



FP7C0613.EPS

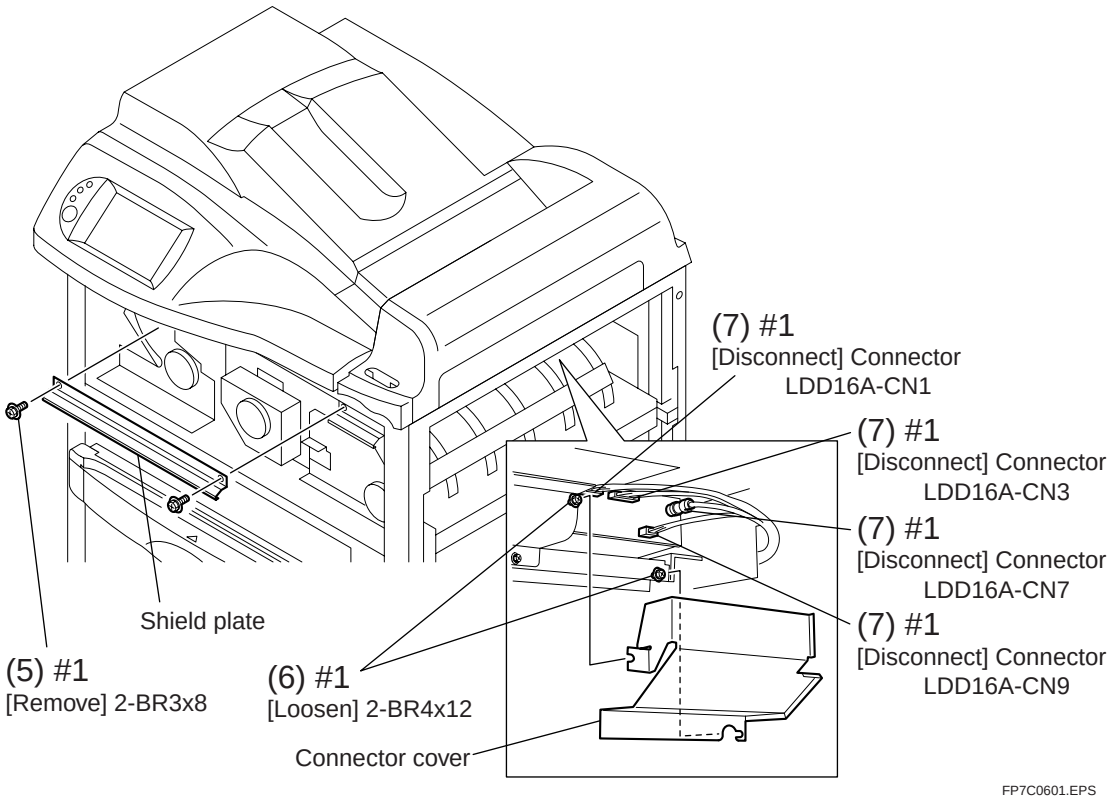
(4) Reinstall the sub-scanning unit fixing bracket at the position shown below.

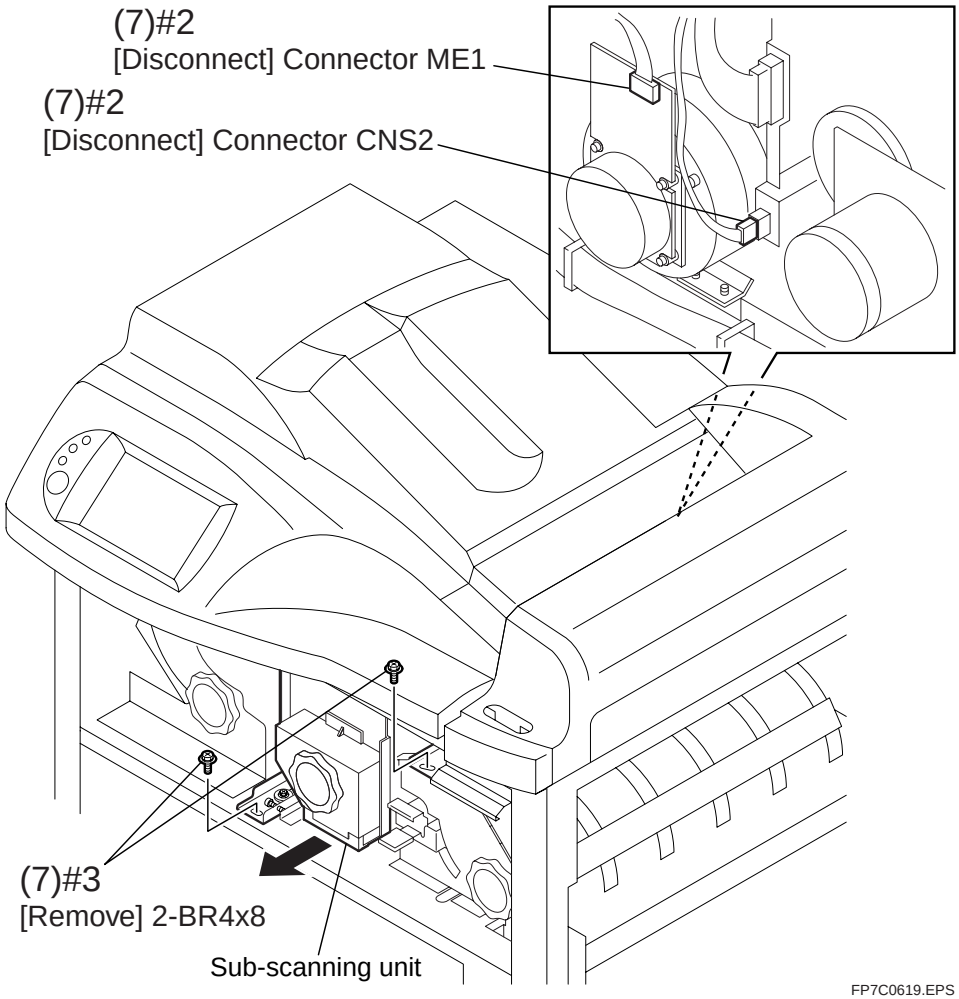


(5) Remove the shield plate.

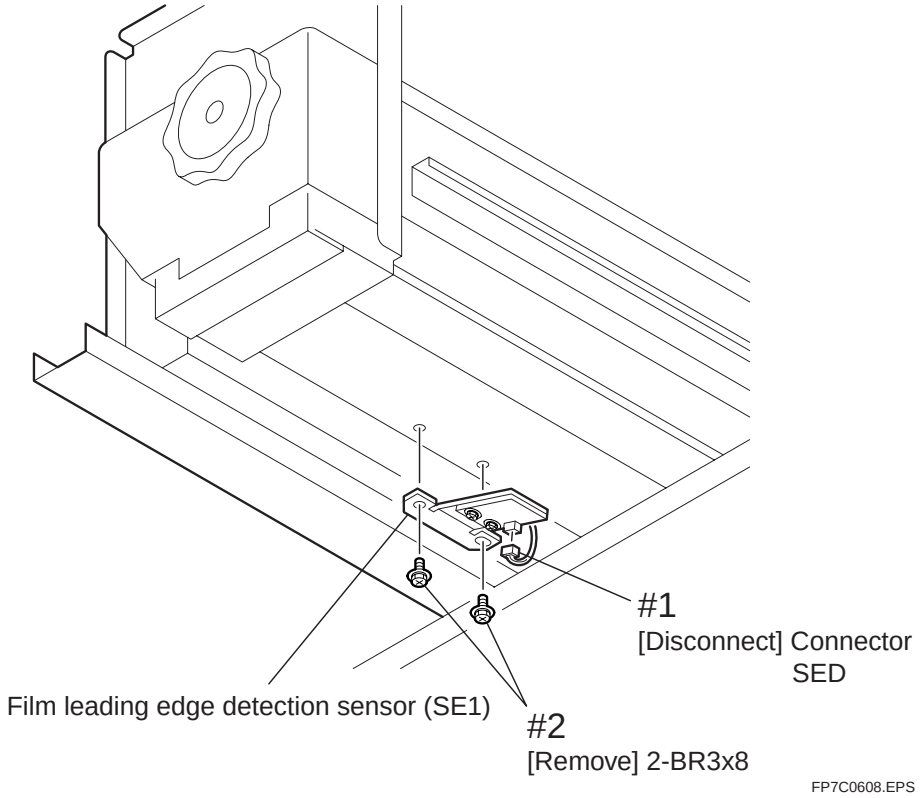
(6) Remove the connector cover.

(7) Draw the sub-scanning unit.





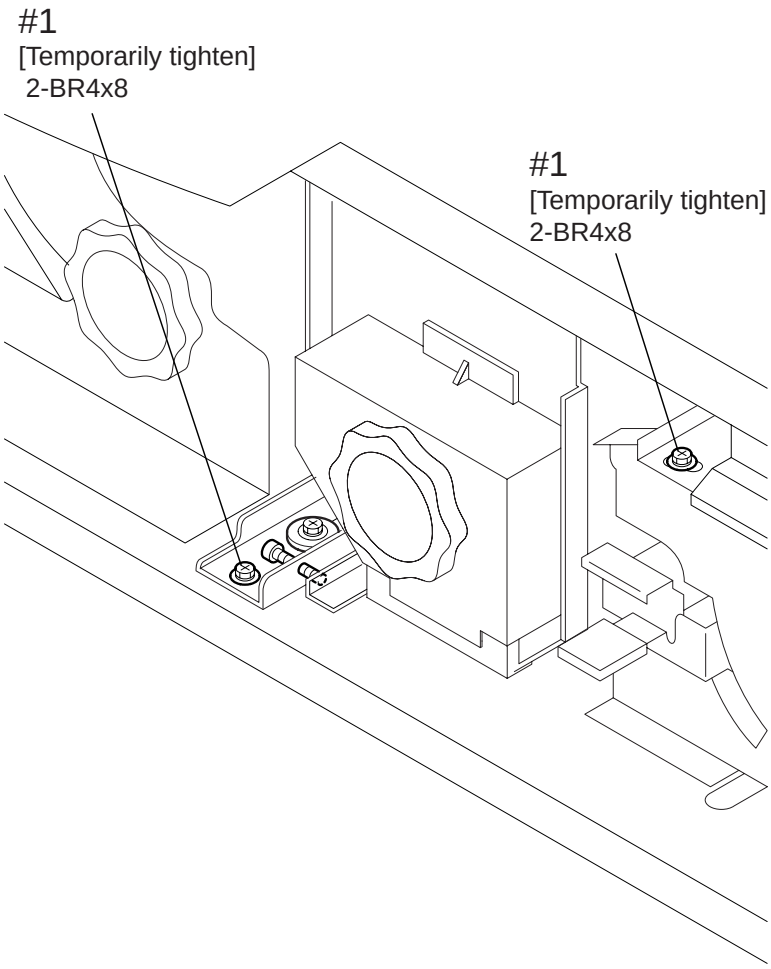
(8) Remove the film leading edge detection sensor (SE1).



■ Reinstalling Procedure

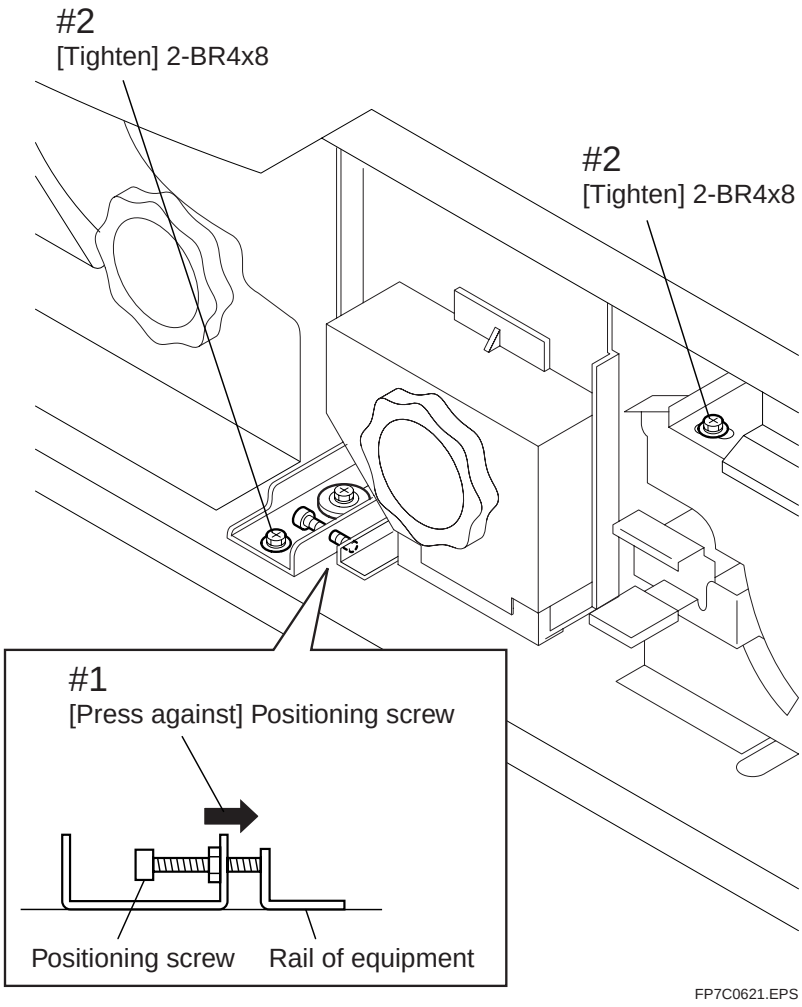
Reinstall in the reverse order of removal. However, perform the following when securing the sub-scanning unit into the equipment.

(1) Insert the sub-scanning unit into the equipment, and temporarily secure with the screws.



FP7C0620.EPS

(2) Press the positioning screw against the rail, and secure the sub-scanning unit.

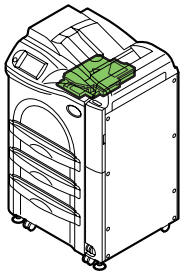


(3) Remove the sub-scanning unit fixing bracket, and reinstall it to its original position.

CAUTION

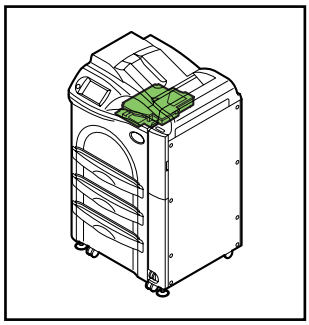
When removing the sub-scanning unit fixing bracket, be careful never remove the screws painted in red.

7 SCANNING OPTICS UNIT



FP7Z0711.EPS

7 - 1 Scanner Unit



FP7C0703.EPS

CAUTION

- The LD/IC may damage due to static electricity. When removing/reinstalling it, take anti-static measures by wearing a wrist band, etc.
- Do not remove the upper cover of the scanner unit.
- Do not place your finger inside the laser beam window (at the bottom of the scanner unit).
- Handle the optical unit gently, making sure not to subject it to shock.

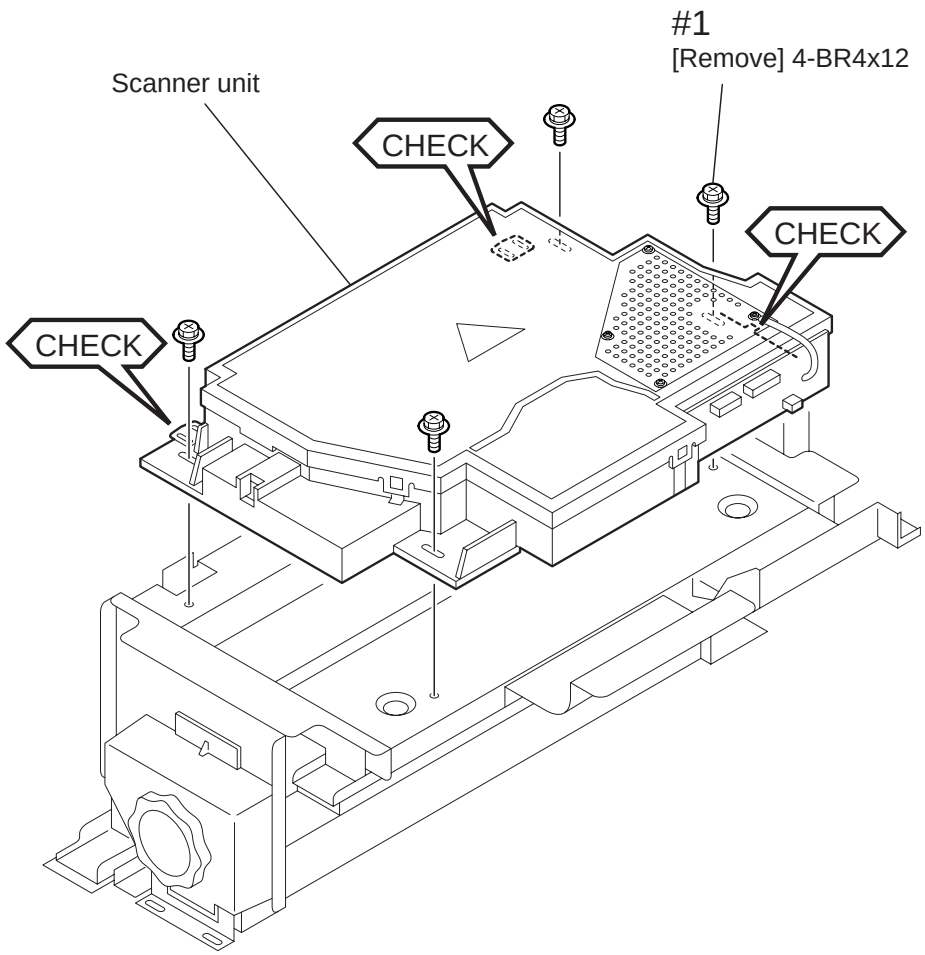
7.1.1 Removal/Reinstallation

■ Removing Procedure

(1) Remove the sub-scanning unit.

☞ “6.1 Sub-scanning Unit”

(2) Remove the scanner unit.



■ Reinstalling Procedure

Reinstall in the reverse order of the removing procedure. However perform the following when installing the scanner unit to the sub-scanning unit.

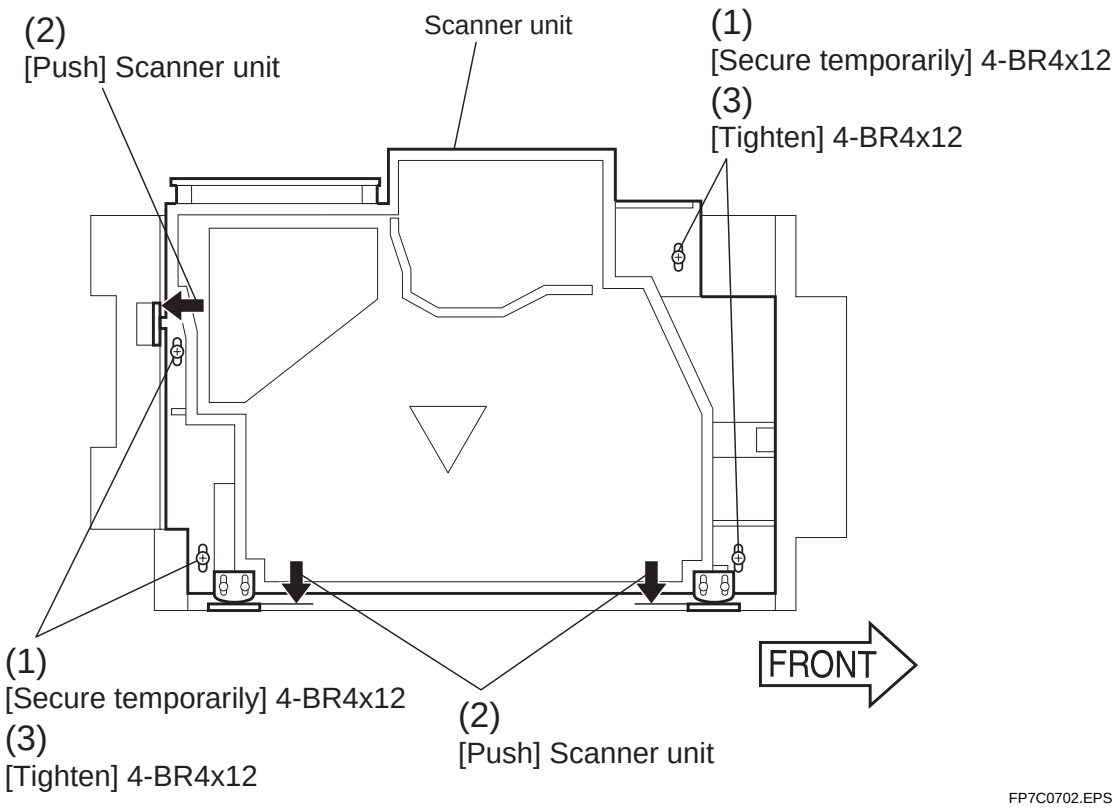
<INSTRUCTIONS>

When pushing the scanner unit against the positioning plate, push gently without subjecting it to shock.

(1) Align the scanner unit to the reinstalling position of the sub-scanning unit, and secure temporarily with the screws.

(2) Push the two positioning brackets and protruded part on the scanner unit against the sub-scanning unit at the positions shown in the following figure.

(3) Secure the scanner unit with the screws.



■ CHECK/Adjusting Procedure

- Make sure that there is no gap between the sub-scanning unit positioning plate and scanner unit positioning parts.
- Make sure that the connectors are connected properly.

7.1.2 Adjustments in Replacement of Scanner Unit

If the scanner unit has been replaced, the data in the scanner unit data FD provided with the scanner unit needs to be sent to the equipment.

(1) Turn ON the power of the equipment.

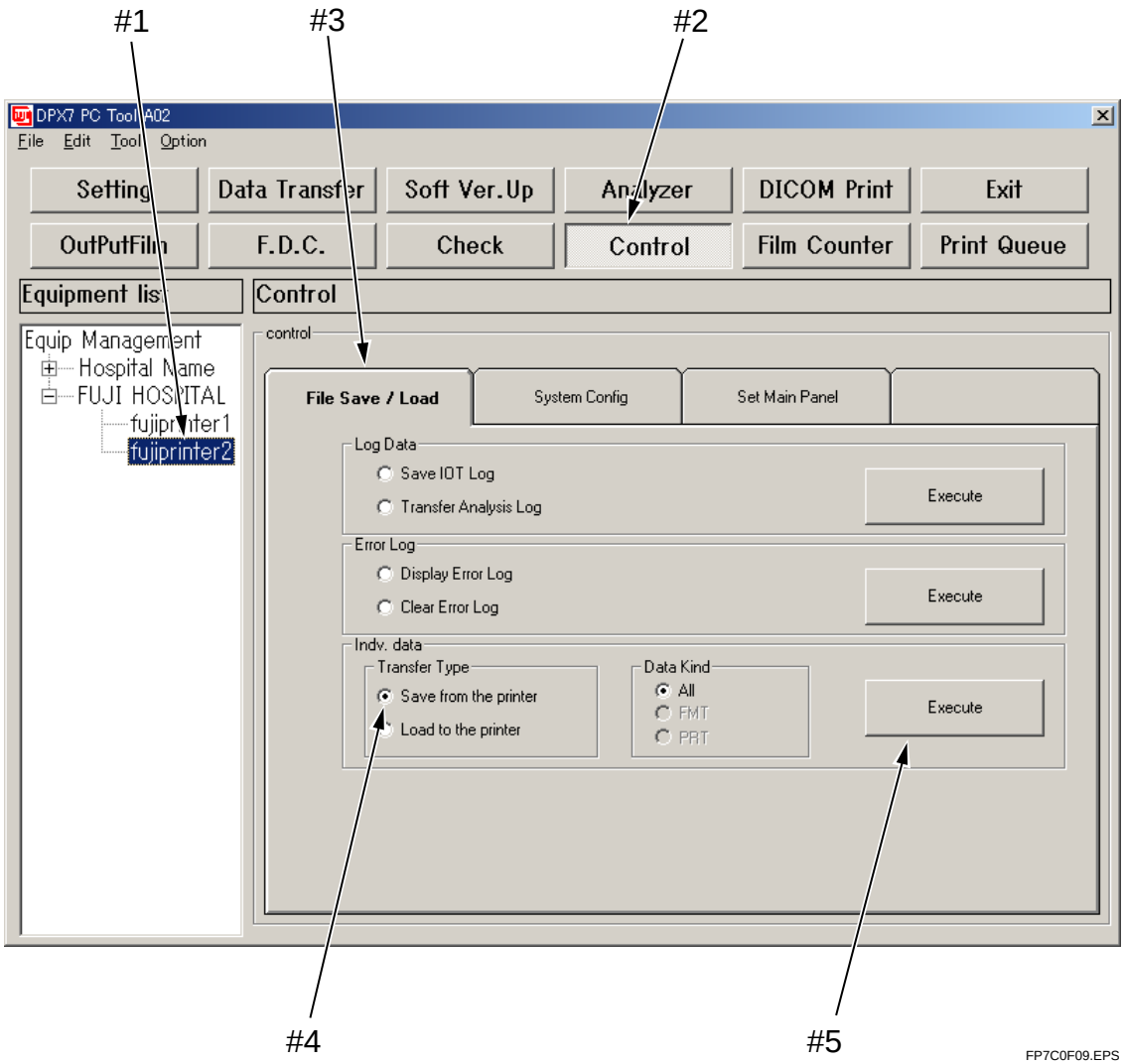
(2) Prepare the PC for servicing.

☞ "INSTALLATION, 10.1 Connecting the PC for Servicing to the Network"

☞ "INSTALLATION, 10.2 Starting the DPX7 PC Tool/Connecting DPX7 PC Tool to the Equipment"

(3) Import the individual data.

"Printer name importing data" → [Control] → [File Save/Load] → [Save from the printer] → [Execute]



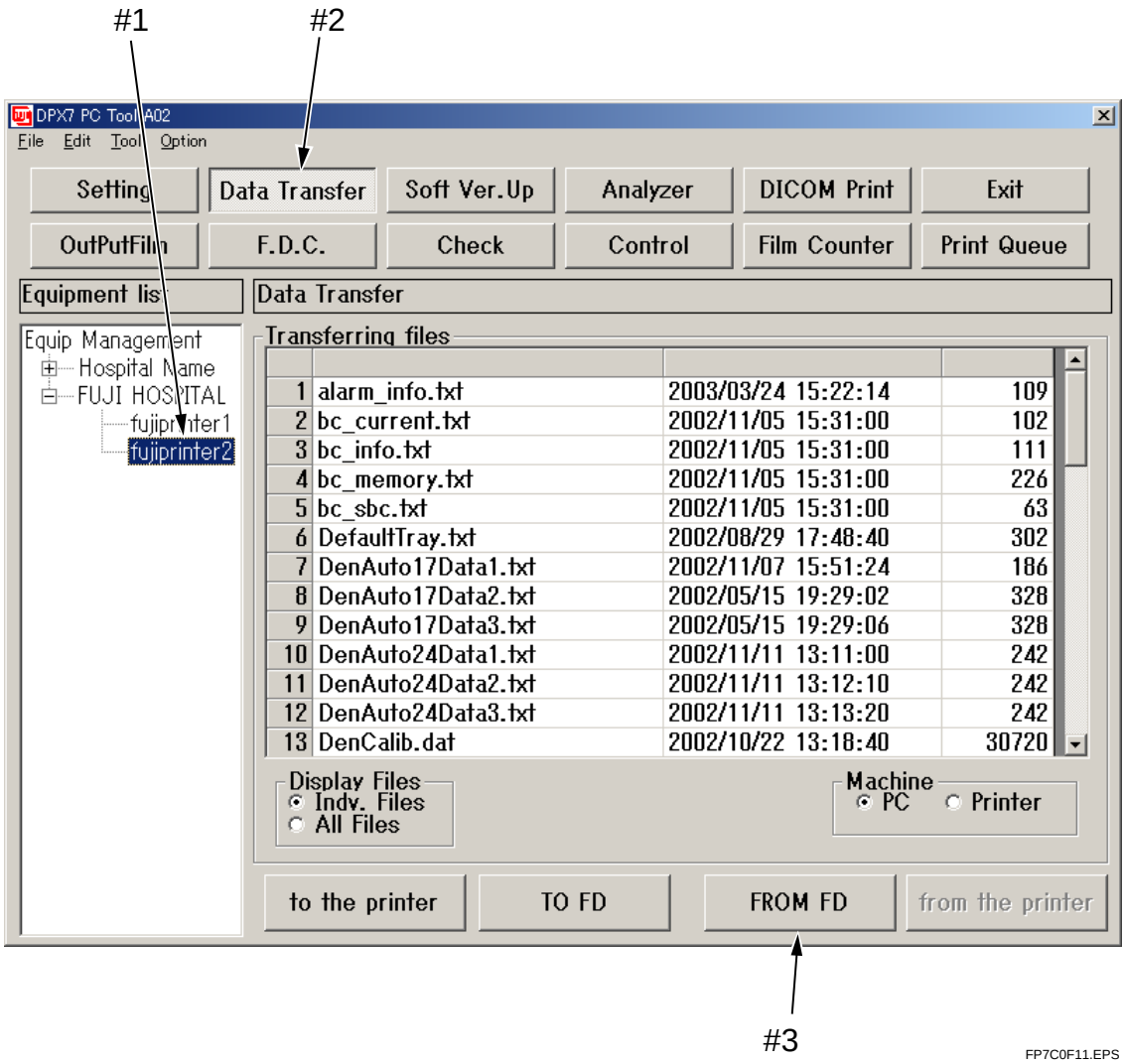
→ The individual data is sent to the PC for servicing. When the data transfer is completed, the [File transfer is completed.] screen appears.

(4) Insert the scanner unit data FD provided with the scanner unit into the FDD of the PC for servicing.

(5) Copy scanner unit data to the PC for sevicing.

"Printer name" → [Data Transfer] → [FROM FD]

→ Scanner unit data is copied to the PC for servicing.



→ When completed, the [FD File transfer is completed.] screen appears.

(6) Send the individual data containing the scanner unit data copied to the equipment.

"Printer name" → [Control] → [File Save/Load] → [Load to the printer] → [Execute]

→ The individual data is sent to the equipment, and only the scanner unit data is updated. When the data transfer is completed, the [File transfer is completed.] screen appears.

(7) End the DPX7 PC Tool.

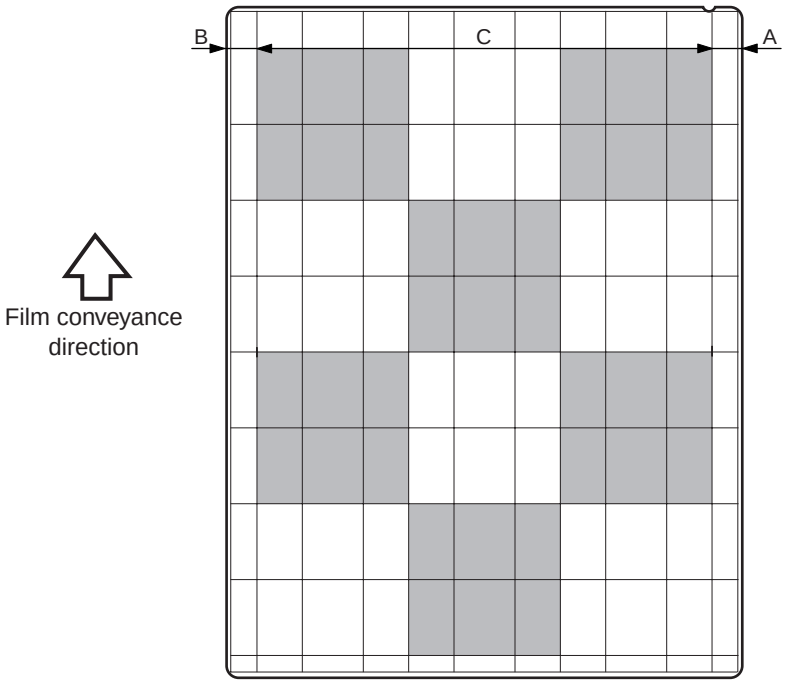
(8) Reboot the equipment, and start the M-Utility.

(9) Output the grid pattern using the M-Utility.

☞ "SERVICE MODE, [2-5] Grid"

(10) Measure “C” of the film output, and check that the values satisfy the specification.

For 35 x 43 cm size



(Unit: mm)

Position	35 x 43 cm size	26 x 36 cm size	20 x 25 cm size
| A - B |	≤ 1.2	≤ 1.2	≤ 2.0
C	300 ±1.2	300 ±1.2	200 ±1.2

FP7C0705.EPS

(11) If they do not, change the value of “[4-3-1] Scanning Width” of the M-Utility.

☞ “SERVICE MODE, [4-3-1] Scanning Width”

(12) Measure “A” and “B” of the film output, and check that the values satisfy the specification.

(13) If they do not, change the value of “[4-3-2] Scanning Position” of the M-Utility.

☞ “SERVICE MODE, [4-3-2] Scanning Position”

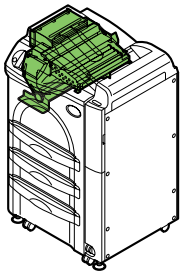
(14) Perform automatic density correction.

☞ “SERVICE MODE, [3-1] AUTO F.D.C.”

(15) Check the film density.

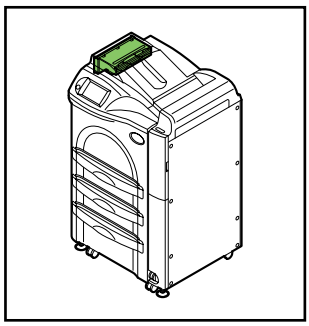
☞ “SERVICE MODE, [3-2] Check Density”

8 HEAT DEVELOPMENT UNIT



FP7Z0811.EPS

8 - 1 Cooling Fan Assembly

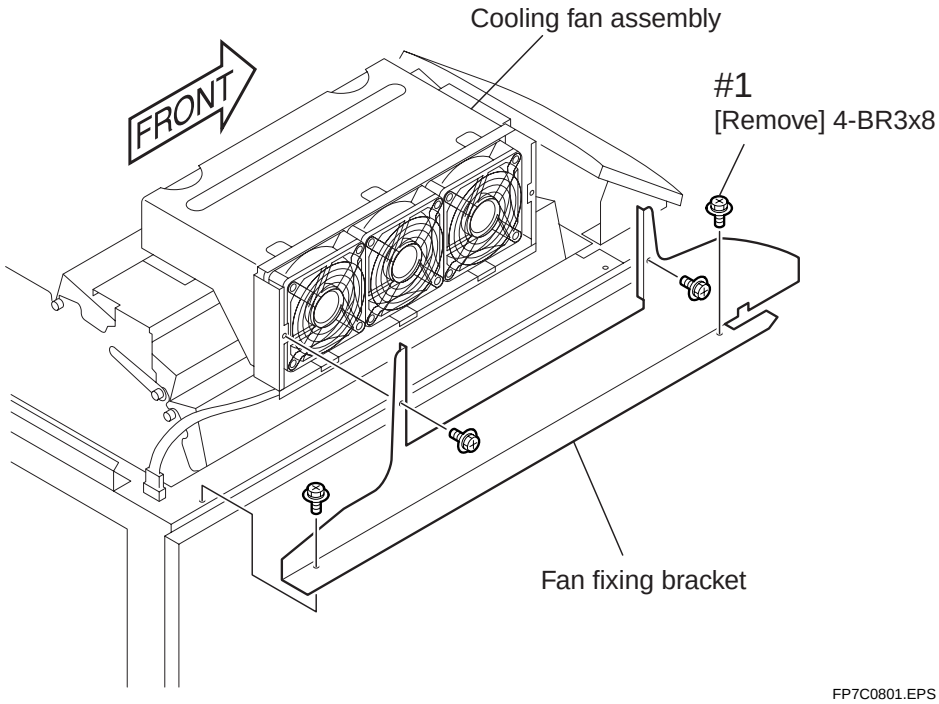


FP7C0814.EPS

■ Removing Procedure

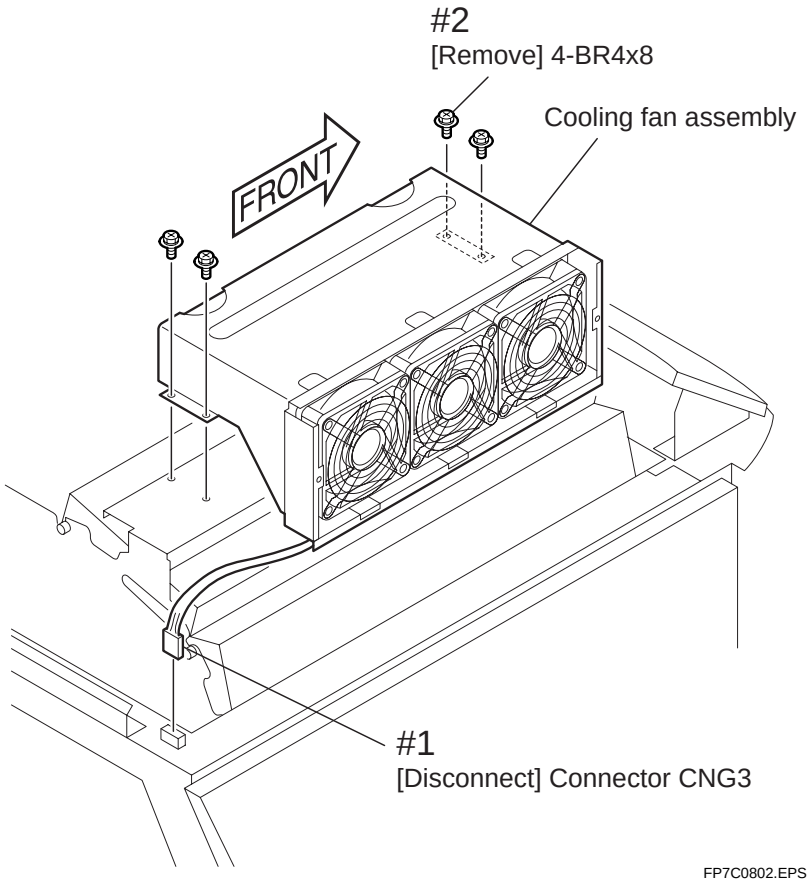
(1) Remove the following covers.
- Jam clear cover
- Upper left cover

(2) Remove the fan fixing bracket.



FP7C0801.EPS

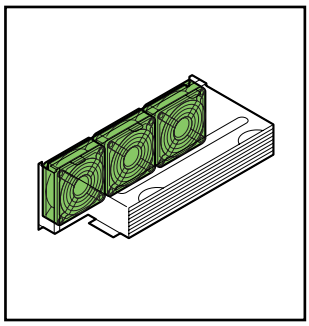
(3) Remove the cooling fan assembly.



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

Filter Section Cooling Fan



FP7C0815.EPS

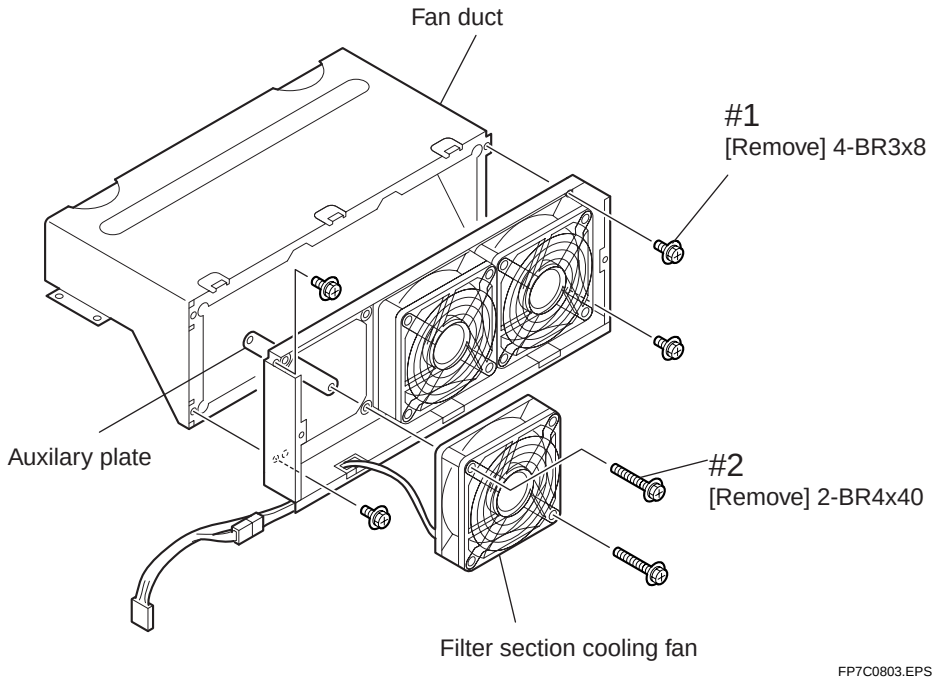
■ Removing Procedure

(1) Remove the cooling fan assembly.

☞ “8.1 Cooling Fan Assembly”

(2) Remove the fan duct.

(3) Remove the filter section cooling fan.

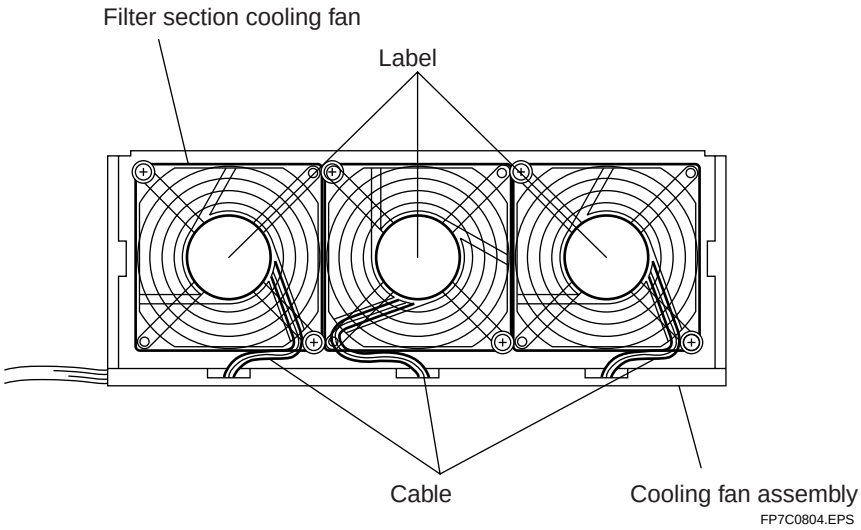


FP7C0803.EPS

■ Reinstalling Procedure

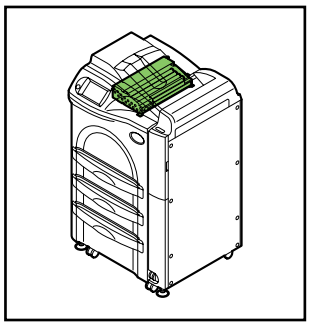
<INSTRUCTIONS>

Reinstall the filter section cooling fan as shown in the figure.



Reinstall in the reverse order of removal.

Film Cooling Section



FP7C0816.EPS

■ Removing Procedure

(1) Remove the following covers.
- Jam clear cover
- Upper left cover
- Upper right cover

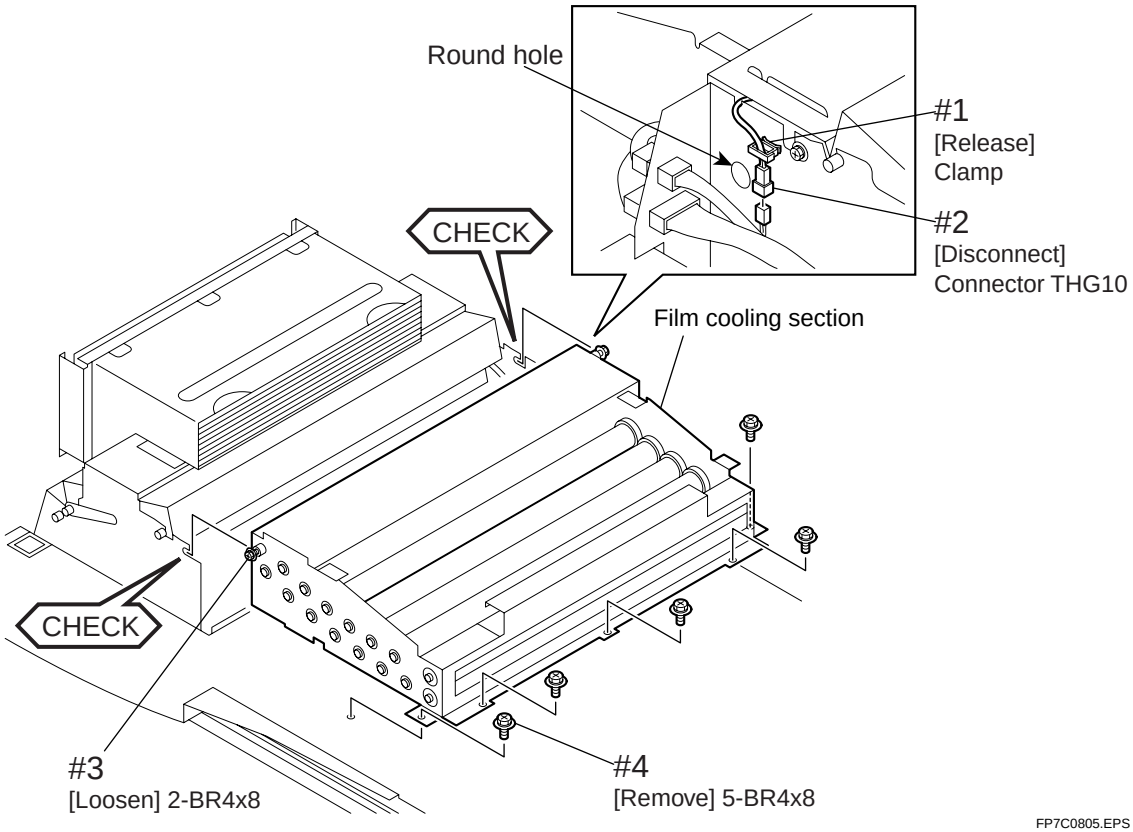
(2) Remove the operation panel.

☞ "10.1 Operation Panel"

(3) Remove the film release unit.

☞ "9.1 Film Release Unit"

(4) Remove the film cooling section.

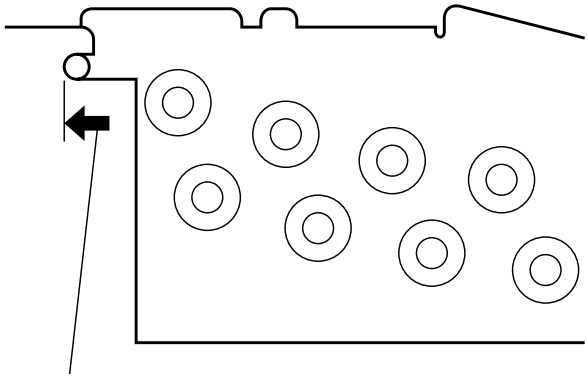


FP7C0805.EPS

■ Reinstalling Procedure

<INSTRUCTIONS>

When reinstalling the film cooling section, press the shaft against the bracket as shown in the figure, and secure with the screws.



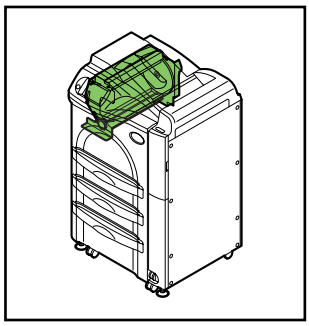
[Press] Film cooling section shaft

FP7C0806.EPS

Reinstall in the reverse order of removal.

■ CHECK/Adjusting Procedure

- After reinstalling the film cooling section, check from the round hole on the back of the film cooling section that the gears of the film cooling section and heat development unit are engaged.
- After reinstalling the film cooling section, rotate the jam handle, and check that it moves smoothly.



FP7C0817.EPS

■ Removing Procedure

(1) Remove the following covers.
- Jam clear cover
- Upper left side cover
- Upper right side cover
- Rear cover
- Right side cover
- Left side cover

(2) Remove the sub-scanning unit.

☞ “6.1 Sub-Scanning Unit”

(3) Remove the film release unit.

☞ “9.1 Film Release Unit”

(4) Remove the cooling fan assembly.

☞ “8.1 Cooling Fan Assembly”

(5) Remove the operation panel.

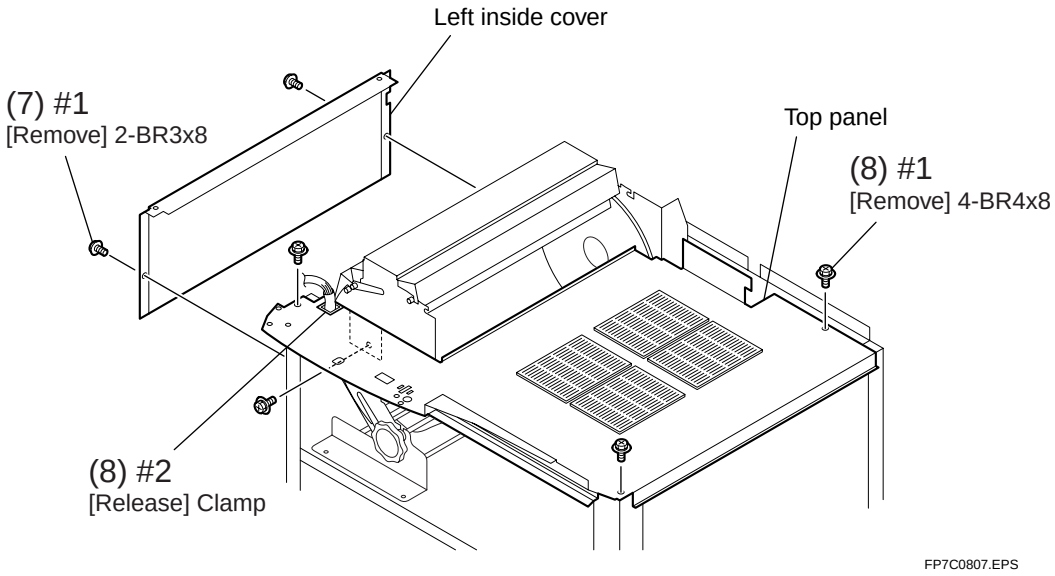
☞ “10.1 Operation Panel”

(6) Remove the film cooling section.

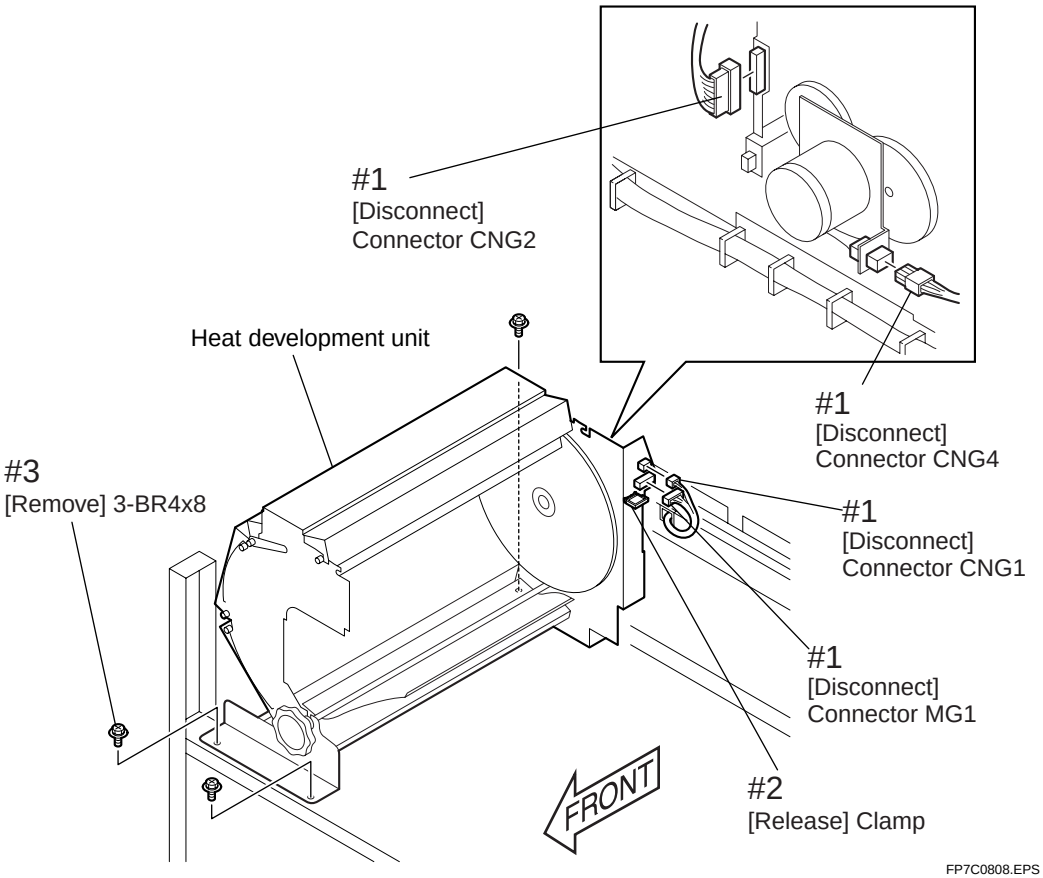
☞ “8.3 Film Cooling Section”

(7) Remove the left inside cover.

(8) Remove the top panel.



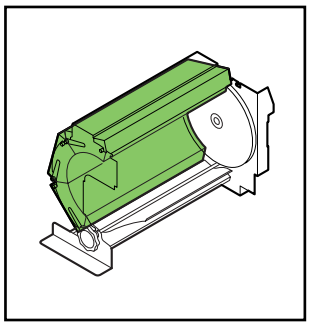
(9) Remove the heat development unit.



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

Heat Development Rack Assembly



FP7C0818.EPS

■ Removing Procedure

(1) Insert the shutter into the film tray.

(2) Remove the following covers.

- Jam clear cover
- Upper left side cover
- Rear cover
- Left side cover

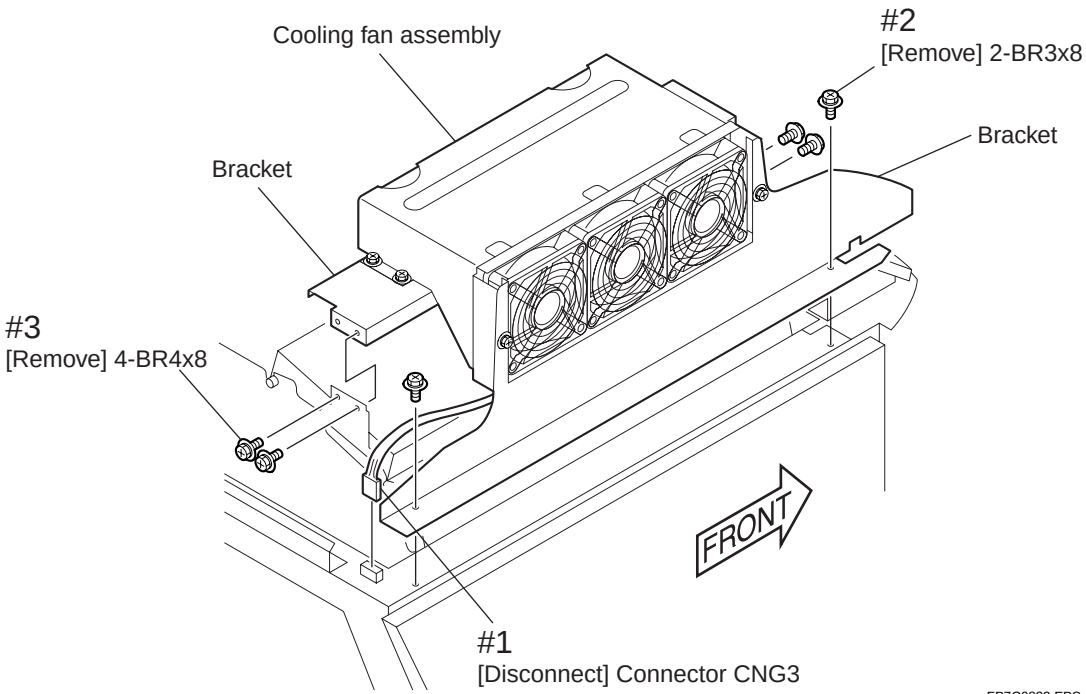
(3) Remove the film release unit.

☞ "9.1 Film Release Unit"

(4) Remove the film cooling section.

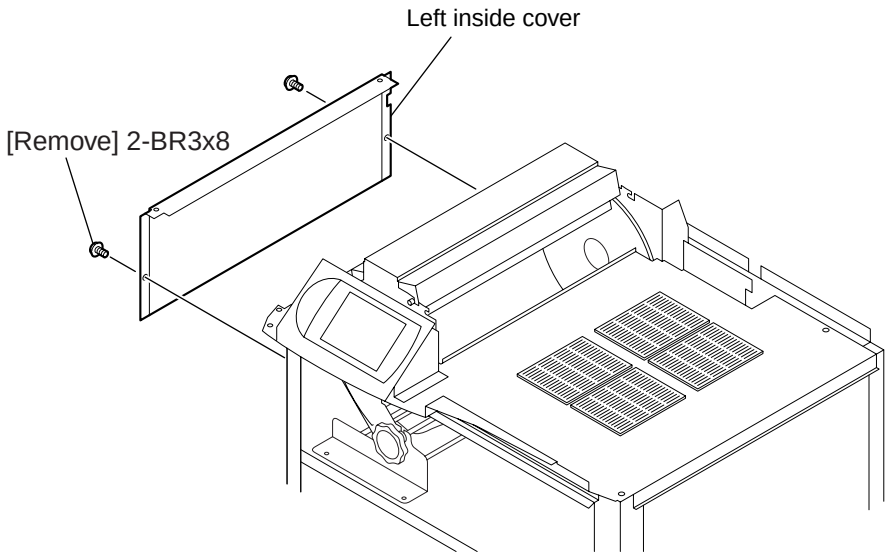
☞ "8.3 Film Cooling Section"

(5) Remove the cooling fan assembly together with the bracket.



FP7C0823.EPS

(6) Remove the left inside cover.



(7) Disconnect the connectors and earth cables.

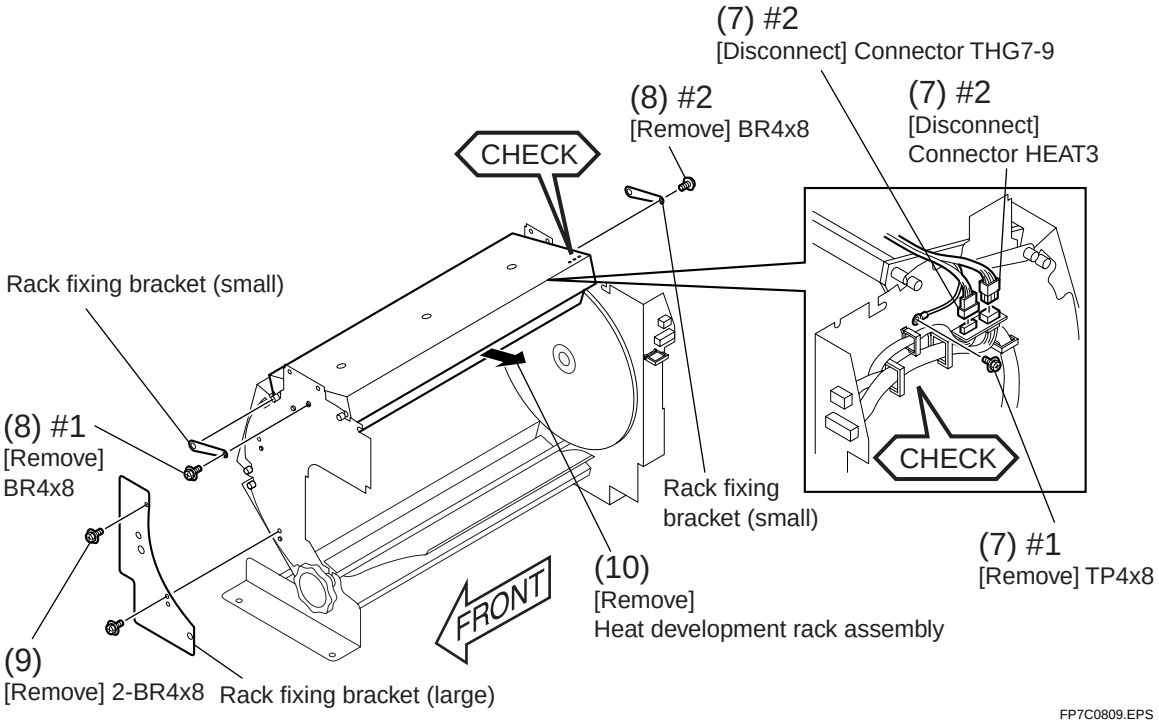
(8) Remove the rack fixing brackets (small).

(9) Remove the rack fixing bracket (large).

<NOTE>

Do not remove the left and right fixing pins on the heat development rack assembly.

(10) Remove the heat development rack assembly.



■ Reinstalling Procedure

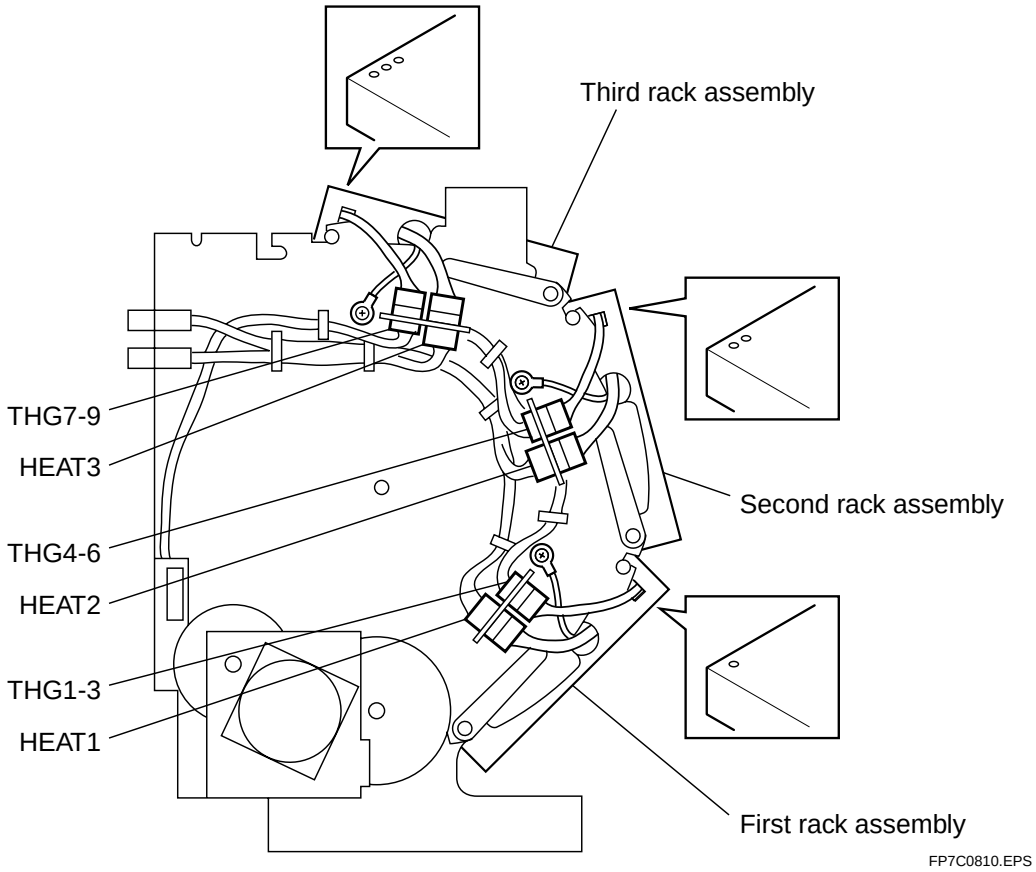
<NOTE>

When reinstalling the adiabatic cover, do not sandwich the thermistor cable.

Reinstall in the reverse order of removal.

■ CHECK/Adjustment Procedure

Check that connectors are connected properly.



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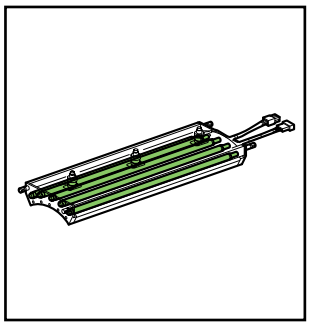
Heat Development Roller



FP7C0819.EPS

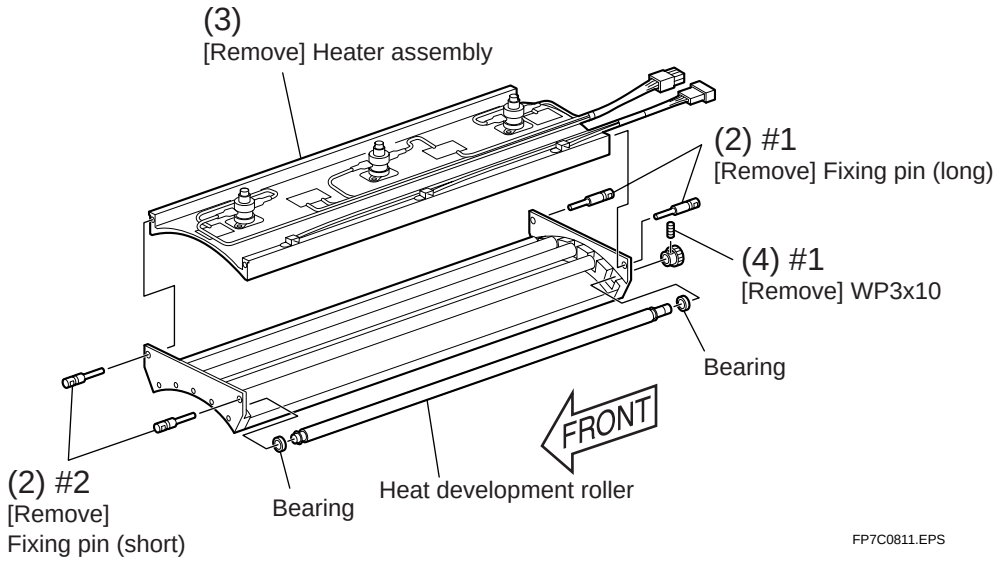
■ Removing Procedure

(1) Remove the heat development rack assembly, and remove adiabatic cover.
☞ "8.5 Heat Development Rack Assembly"

(2) Remove the fixing pins.

(3) Remove the heater assembly.

(4) Remove the heat development roller.



FP7C0811.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

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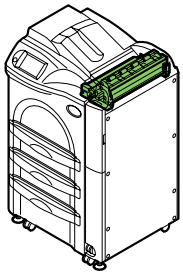
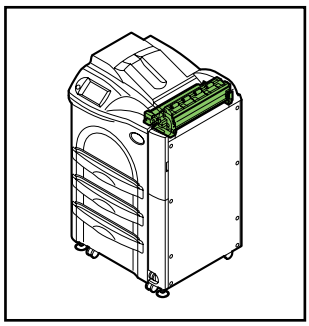
9 FILM RELEASE UNIT



FP7Z0911.EPS

9 - 1 Film Release Unit



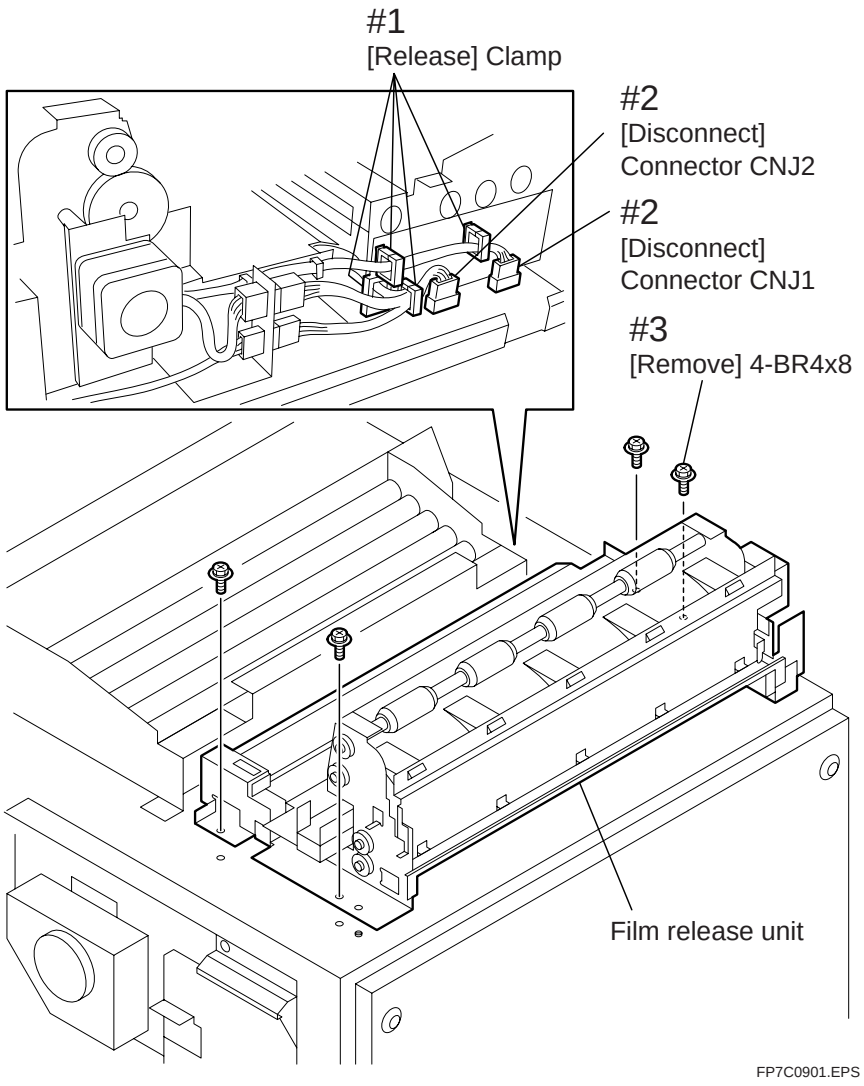
FP7C0904.EPS

■ Removing Procedure

(1) Remove the following covers.

- Jam clear cover
- Upper left side cover
- Upper right side cover
- Side ejection cover

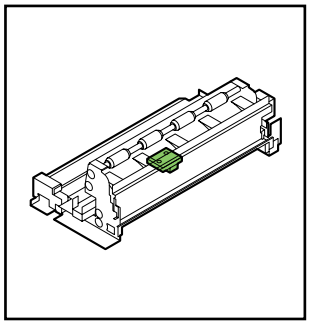
(2) Remove the film release unit.



■ Reinstalling Procedure

Reinstall in the reverse order of removal.

9 - 2 Density Measurement Light-Emitting Board (LED15A)



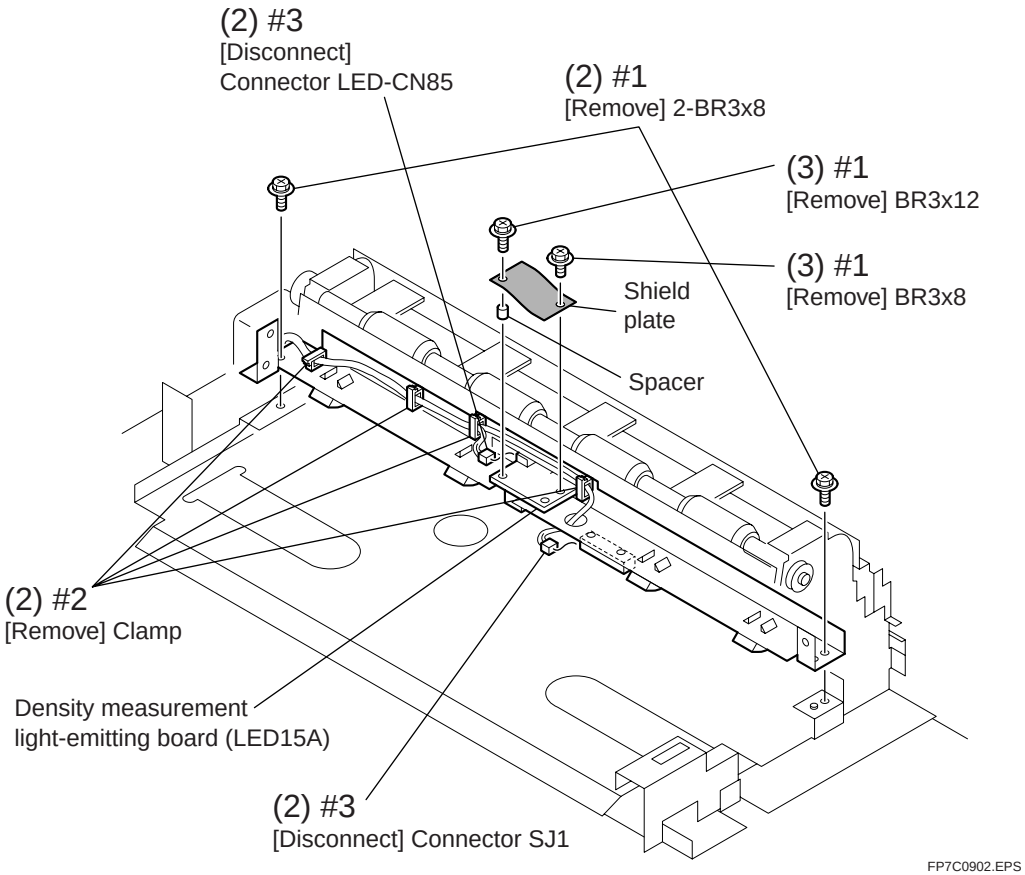
FP7C0905.EPS

■ Removing Procedure

(1) Remove the following covers.
- Jam clear cover
- Upper left side cover
- Upper right side cover
- Film release unit cover

(2) Remove the LED15A installing bracket.

(3) Remove the density measurement light-emitting board.

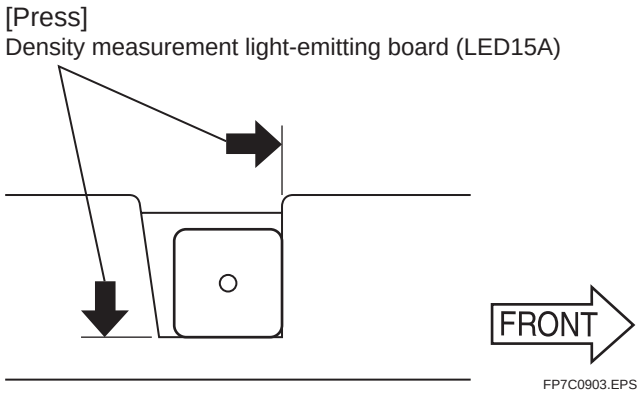


FP7C0902.EPS

■ Reinstalling Procedure

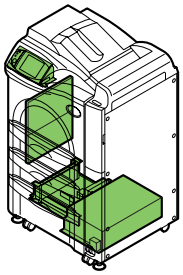
<INSTRUCTIONS>

Press the LED cover of the density measurement light-emitting board against the position shown in the figure below, and secure.



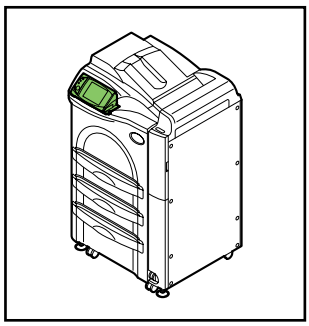
Reinstall in the reverse order of removal.

10 CONTROLLER



FP7Z0A11.EPS

10 - 1 Operation Panel

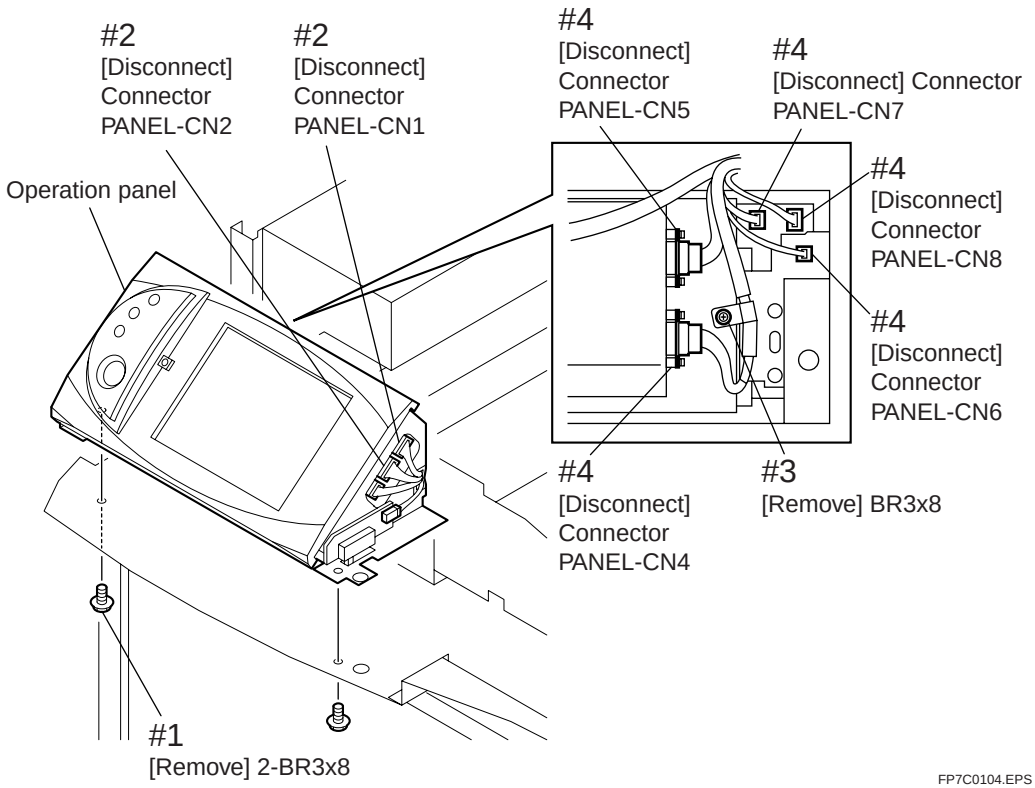


FP7C0106.EPS

■ Removing Procedure

(1) Remove the following covers.
- Jam clear cover
- Upper left side cover

(2) Remove the operation panel.



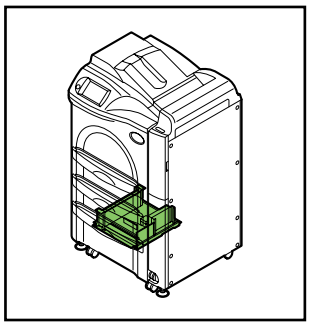
FP7C0104.EPS

■ Reinstalling Procedure

<NOTE>

When reinstalling the upper left side cover, make sure that it does not interfere with the operation panel.

Reinstall in the reverse order of removal.

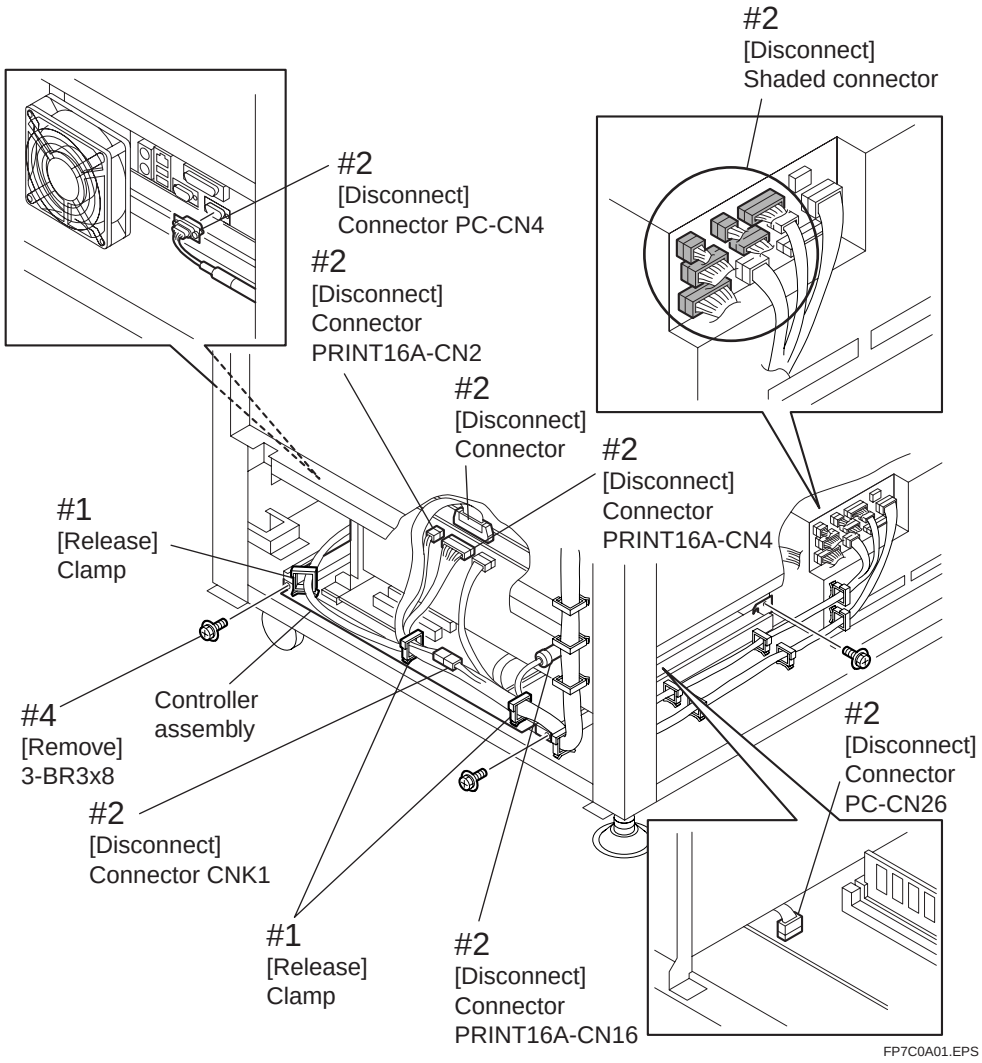


FP7C0A04.EPS

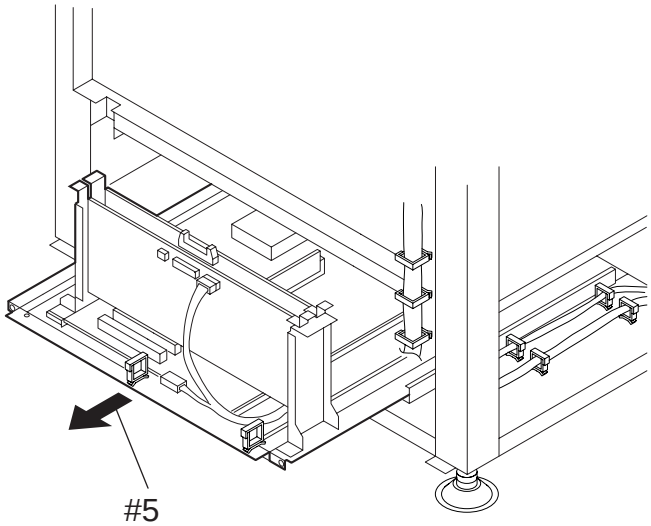
■ Removing Procedure

(1) Remove the following covers.
- Left side cover
- Rear cover
- Lower front cover

(2) Remove the controller assembly.

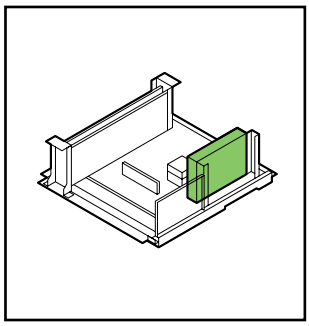


FP7C0A01.EPS



■ Reinstalling Procedure

Reinstall in the reverse order of removal.



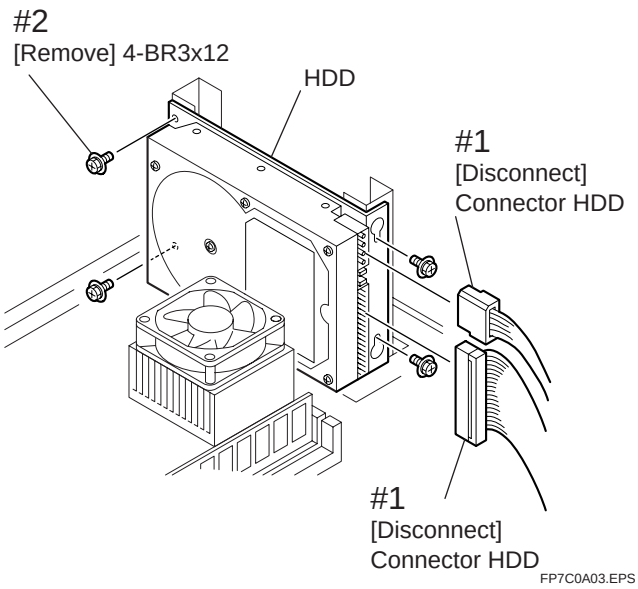
FP7C0A05.EPS

■ Removing Procedure

(1) Remove the controller assembly.

☞ "10.2 Controller Assembly"

(2) Remove the HDD.



FP7C0A03.EPS

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

■ Replacing Procedure

The service parts HDD is installed with the OS and main unit software.
However, because the main unit software may not be of the latest version, if the HDD has been replaced, perform full installation of the main unit software and re-installation of individual data.
Prepare the latest main unit software CD-R when replacing the HDD.

(1) Turn OFF the power of the equipment.

(2) Replace the HDD.

☞ "■ Removing Procedure/■ Reinstalling Procedure"

(3) Turn ON the power of the equipment, and check the version of the main unit software displayed at startup.

(4) Start the M-Utility, and set the network.

☞ "INSTALLATION, 7.2.2 System Management/Set Network"

(5) End the M-Utility, and turn OFF and then ON the power of the equipment.

(6) Prepare the PC for servicing.

☞ "INSTALLATION, 10.1 Connecting the PC for Servicing to the Network"

☞ "INSTALLATION, 10.2 Starting the DPX7 PC Tool/Connecting DPX7 PC Tool to the Equipment"

<INSTRUCTIONS>

If the version of the main unit software in the HDD is old: Perform steps (7) and onwards.
If the version of the main unit software in the HDD is latest: Perform steps (8) and onwards.

(7) Perform full installation of the latest main unit software and installation of the application program of the printer in the MCT board.

☞ "12.3 Full Installation Steps (1) to (3)"

(8) Re-install the individual data.

☞ "12.3 Full Installation Step (4)"

(9) Set the system date, film counter, and remaining number of films.

☞ "12.3 Full Installation Steps (5) to (7)"

(10) Reboot the equipment.

☞ "12.3 Full Installation Step (8)"

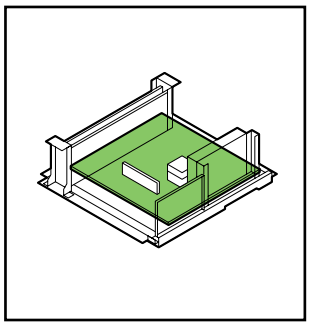
(11) Click [Exit] and shutdown the DPX7 PC Tool.

(12) Remove the CD-R from the PC for servicing.

(13) Shutdown the PC for servicing.

(14) Disconnect the network cable of the PC for servicing from the network to which the equipment is connected.

10 - 4 PC Board



FP7C0A06.EPS

CAUTION

- Replace the PC board if the lithium battery has worn out.
- Return the old PC board to the Parts Center (factory).
- Improper replacement of the battery may result in explosion. When replacing the lithium battery, use the battery designated by Fuji Photo Film Co., Ltd. or use an equivalent battery. Dispose the old battery as specified by Fuji Photo Film Co., Ltd.

■ Removing Procedure

(1) Remove the controller assembly.

☞ "10.2 Controller Assembly"

(2) Remove the PRN board, MCT board, and image memory board.

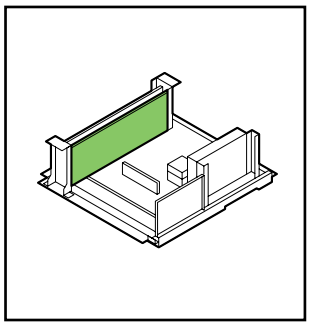
☞ "SERVICE PARTS LIST, 10. Controller"

(3) Disconnect all connectors on the PC board.

(4) Remove the PC board.

■ Reinstalling Procedure

Reinstall in the reverse order of removal.



FP7C0A07.EPS

■ Removing Procedure

(1) Remove the controller assembly.

☞ "10.2 Controller Assembly"

(2) Remove the MCT board.

☞ "SERVICE PARTS LIST 10. Controller"

■ Reinstalling Procedure

Reinstall in the reverse order of removal.

■ Replacing Procedure

If the MCT board has been replaced, the software on the HD (printer installer, printer OS, printer application) needs to be installed with a new MCT board.

(1) Turn OFF the power of the equipment.

(2) Replace the MCT board.

☞ "■ Removing Procedure/■ Reinstalling Procedure"

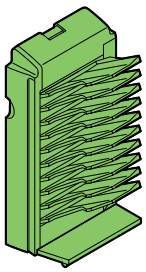
(3) Turn ON the power of the equipment, and start the M-Utility.

(4) Install the software on the HD in the MCT board in the following order; "PRT INST" → "PRT OS" → "PRT APL".

☞ "SERVICE MODE, [1-1-9] Reload Software"

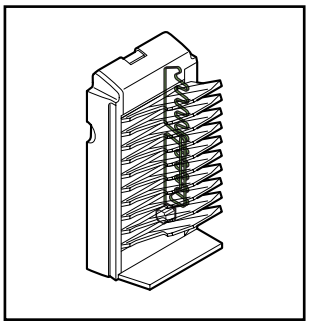
(5) Reboot the equipment.

11 SORTER



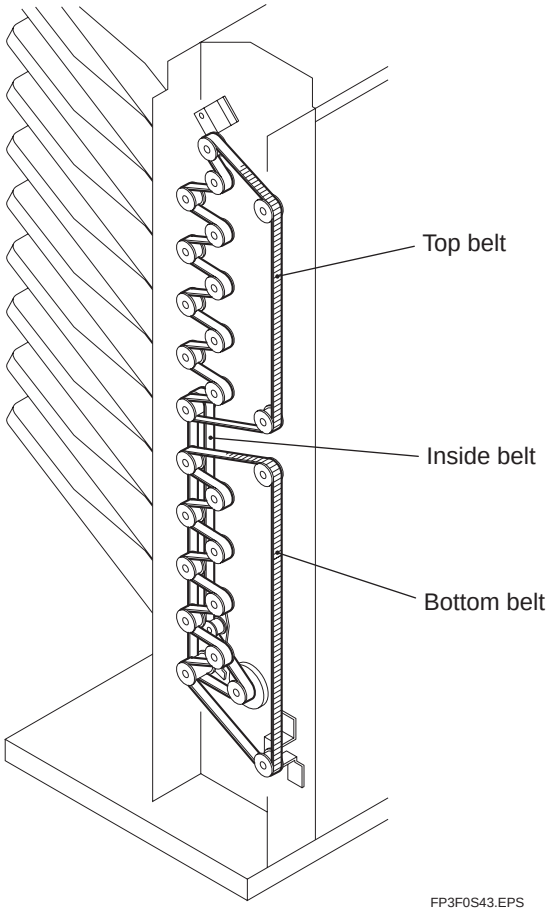
FP7C0B02.EPS

11 - 1 Film Conveyance Timing Belt



FP7C0B03.EPS

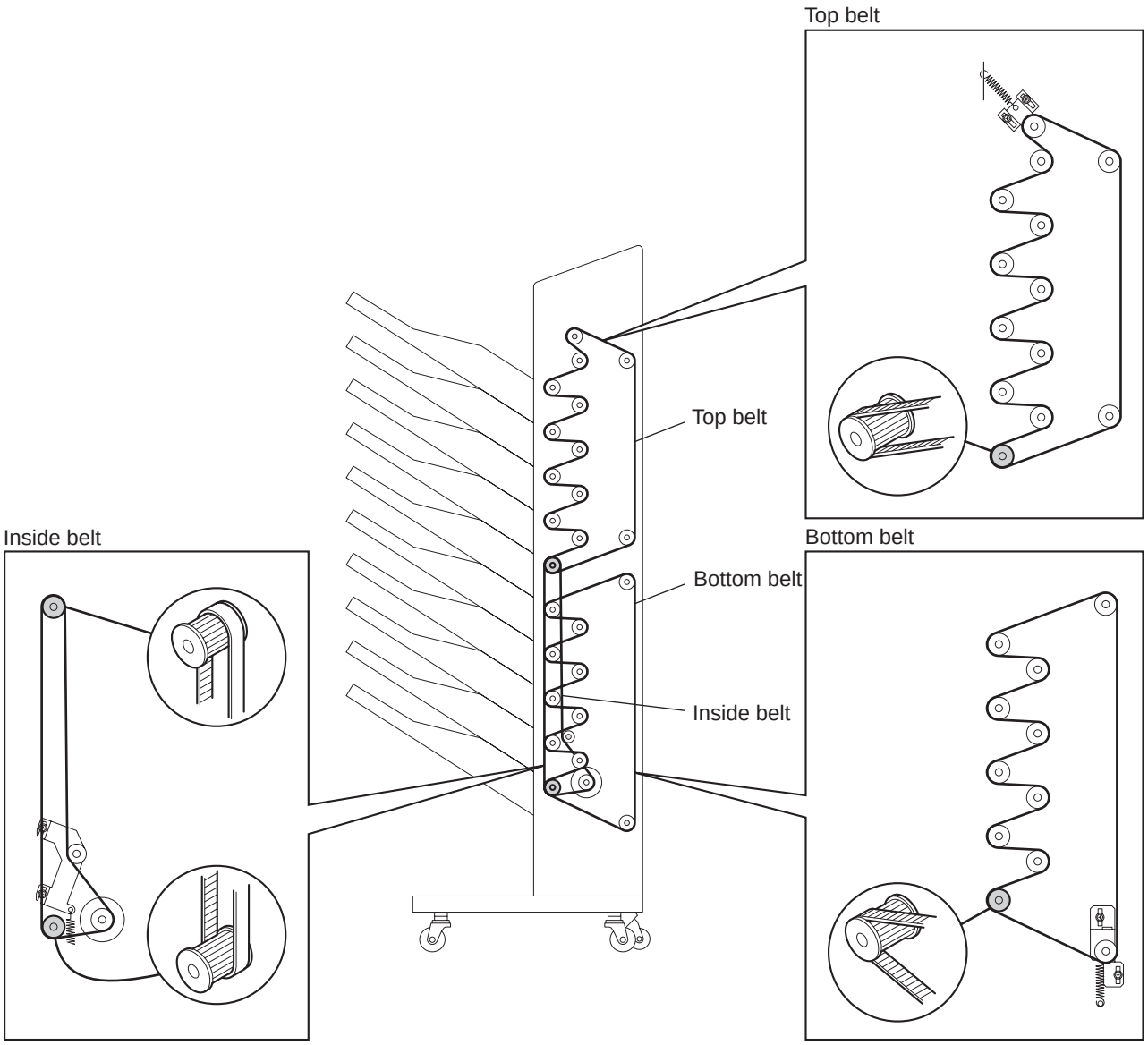
■ Belt Structure



FP3F0S43.EPS

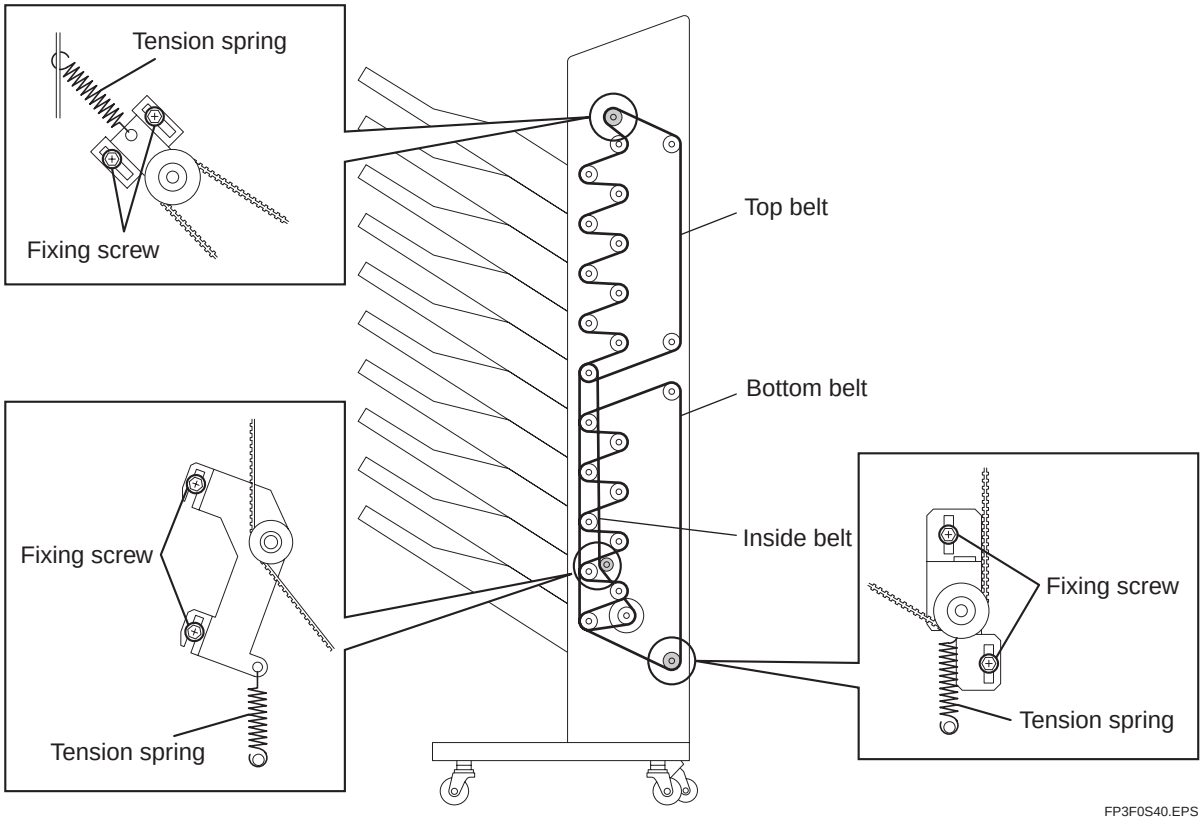
■ Reinstalling Procedure

(1) There are three timing belts. Install the inside belt first and then the top and bottom belts.

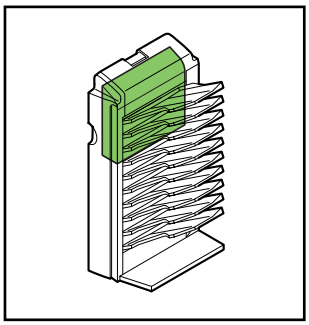


■ Adjusting Procedure

(1) With the fixing screws of the tension pulleys loosened, secure the tension pulleys at the position where they are in balance by the force of the springs.



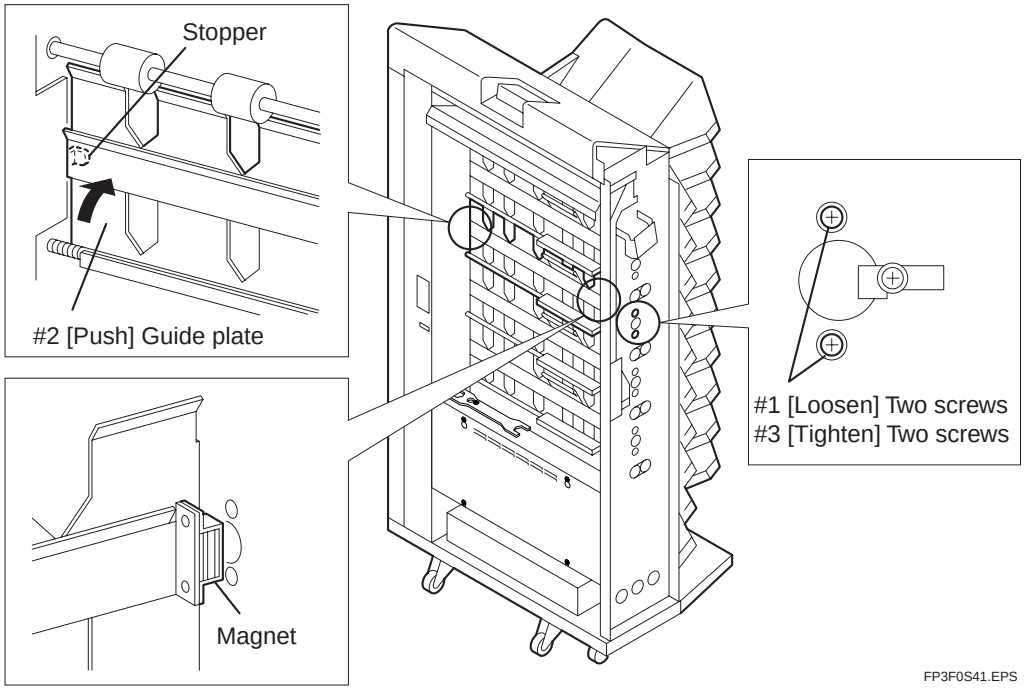
Jam Removing Guide Plate Magnet



FP7C0B04EPS

(1) Loosen the fixing screws of the magnet.

(2) Close the jam removing guide plate, and tighten magnet fixing screws where it touches the stopper.



FP3F0S41.EPS

12. VERSION UPGRADE AND FULL INSTALLATION OF MAIN UNIT SOFTWARE

The main unit software is supplied on CD-R. The DRX7 PC Tool is required for version upgrading and full installation of the main unit software.

Version upgrade: The concerned files excluding individual data of the currently installed software are overwritten.

Full installation: The concerned files including individual data of the currently installed software are overwritten.

<NOTE>

- As performing full installation will clear the individual data in the HD, the individual data needs to be installed after completing full installation.
  Use the latest individual data for installation.
- In version upgrades, individual data will be preserved.

<REMARKS>

The following shows the times required for software installation. Take note that these times differ according to the performance and network environment of the PC for servicing used.

- Version upgrade (PC for servicing → Equipment): Approx. 2 minutes
- Full installation (PC for servicing → Equipment): Approx. 3 minutes
- PRT APL installation (HDD → MCT board): Approx. 1 minute

12.1 Preparations (Same for Version Upgrades and Full Installation)

(1) Turn ON the power of the equipment.

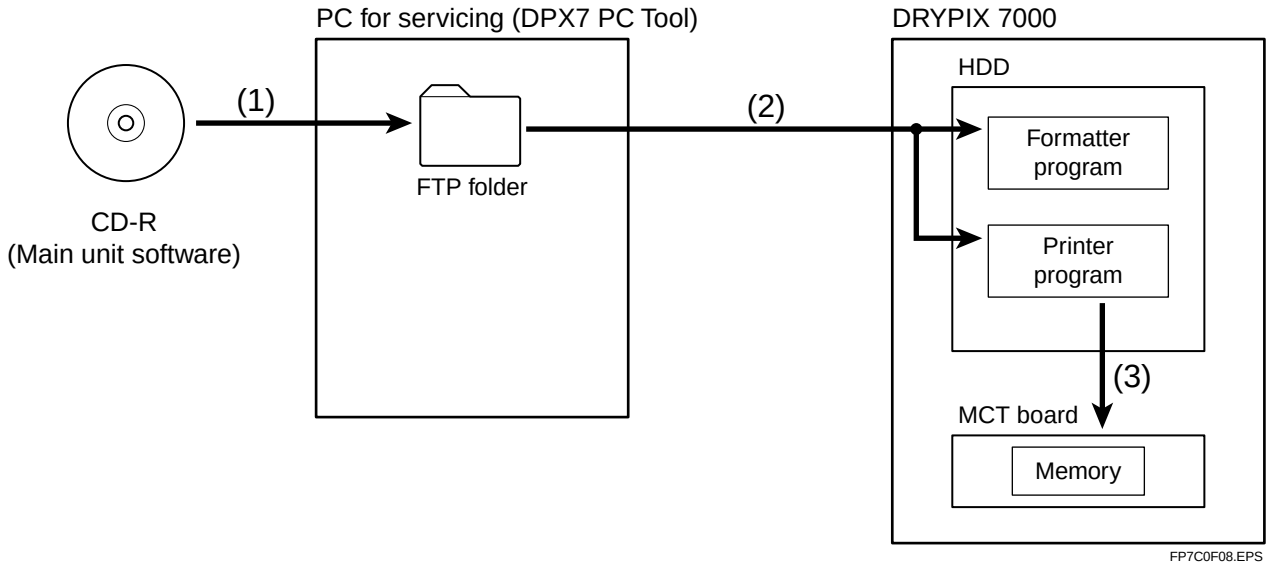
(2) Prepare the PC for servicing.

☞ “INSTALLATION, 10.1 Connecting the PC for Servicing to the Network”

☞ “INSTALLATION, 10.2 Starting the DPX7 PC Tool/Connecting to DPX7 PC Tool the Equipment”

12.2 Version Upgrade

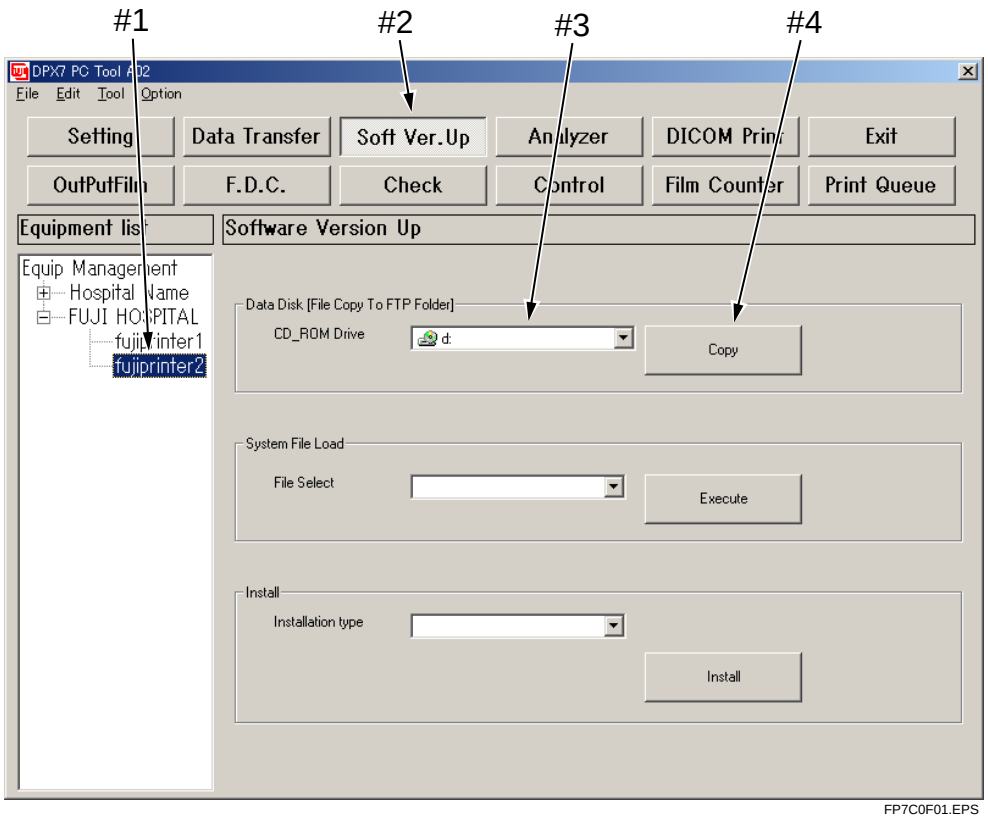
■ Flow of Data When Version Upgrading



■ Version Upgrading Procedure

(1) Insert the latest main unit software CD-R in the CD-ROM drive of the PC for servicing, and copy the main unit software to the FTP folder of the PC for servicing.

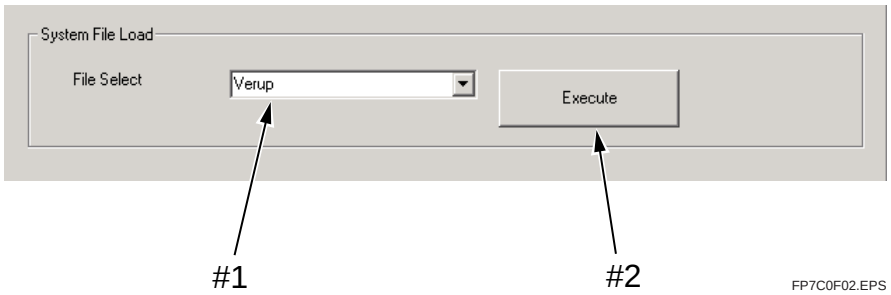
"Printer name" → [Soft Ver.UP] → "CD-ROM drive" → [Copy]



→ The main unit software is copied to the FTP folder of the PC for servicing. When completed, [File Copy Finish!!] screen appears.

(2) Write the main unit software in the HD of the equipment from the PC for servicing (FTP folder).

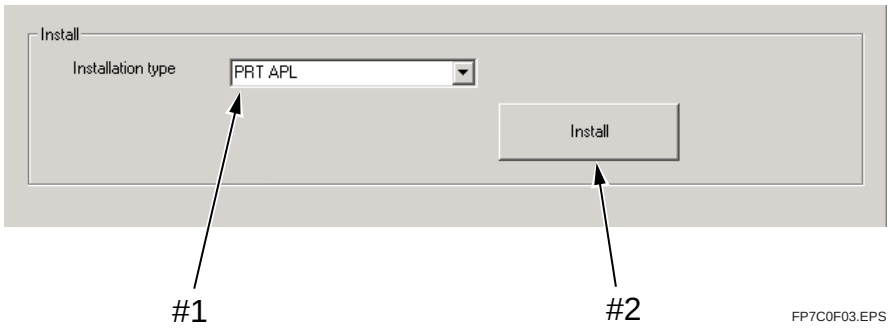
[Verup] → [Execute]



→ The main unit software is installed (version upgraded) in the equipment.
When installation completed, the [System File Load Finish!!] screen appears.

(3) Of the software written in the HD of the equipment, write the printer application program in the MCT board.

[PRT APL] → [Install]

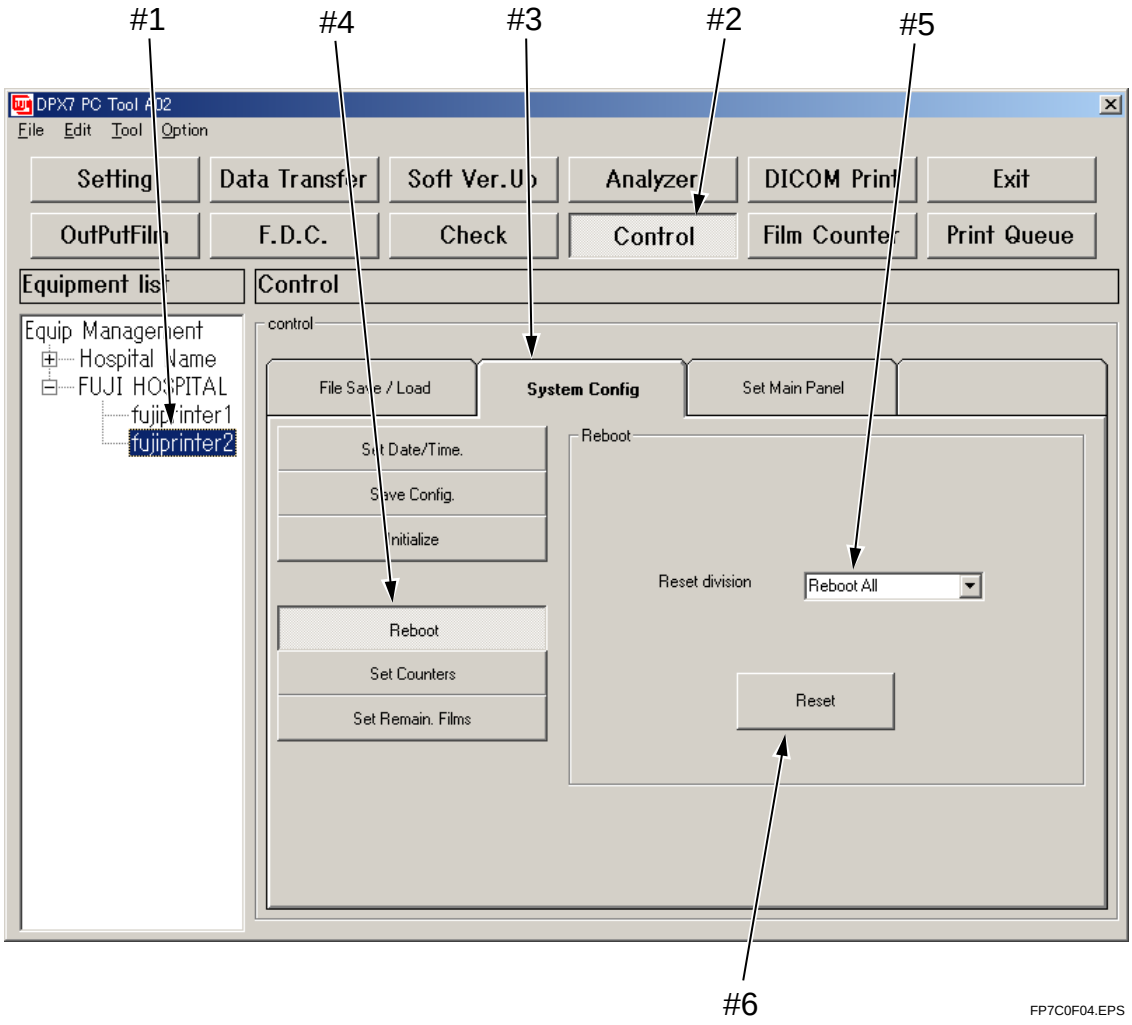


→ The printer application program in the HD is installed in the MCT bard.
When installation completed, the [Software Install Finish!!] screen appears.

<REMARKS>

The version of the main unit software is upgraded after the equipment is rebooted.

(4) Reboot the equipment from the PC for servicing to upgraded the software.
"Printer name" → [Control] → [System Config] → [Reboot] → [Reboot All] → [Reset]



→ The equipment is rebooted.

(5) Click [Exit] to end DPX7 PC Tool.

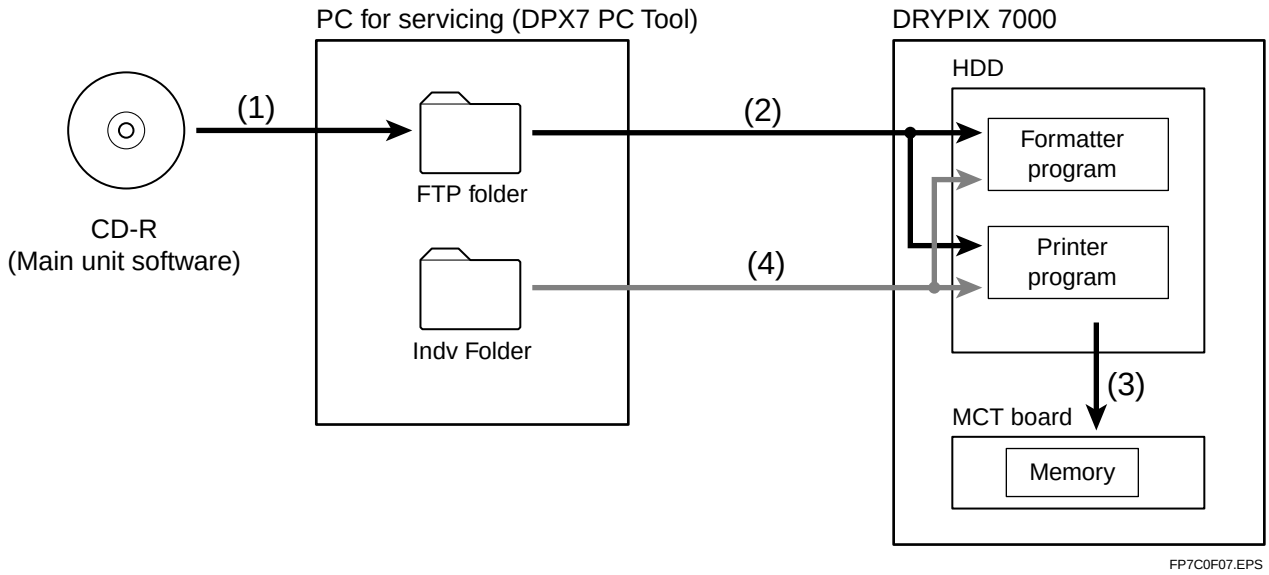
(6) Remove the CD-R from the PC for servicing.

(7) Shutdown the PC for servicing.

(8) Disconnect the network cable of the PC for servicing from the network to which the equipment is connected.

12.3 Full Installation

■ Flow of Data When Performing Full Installation

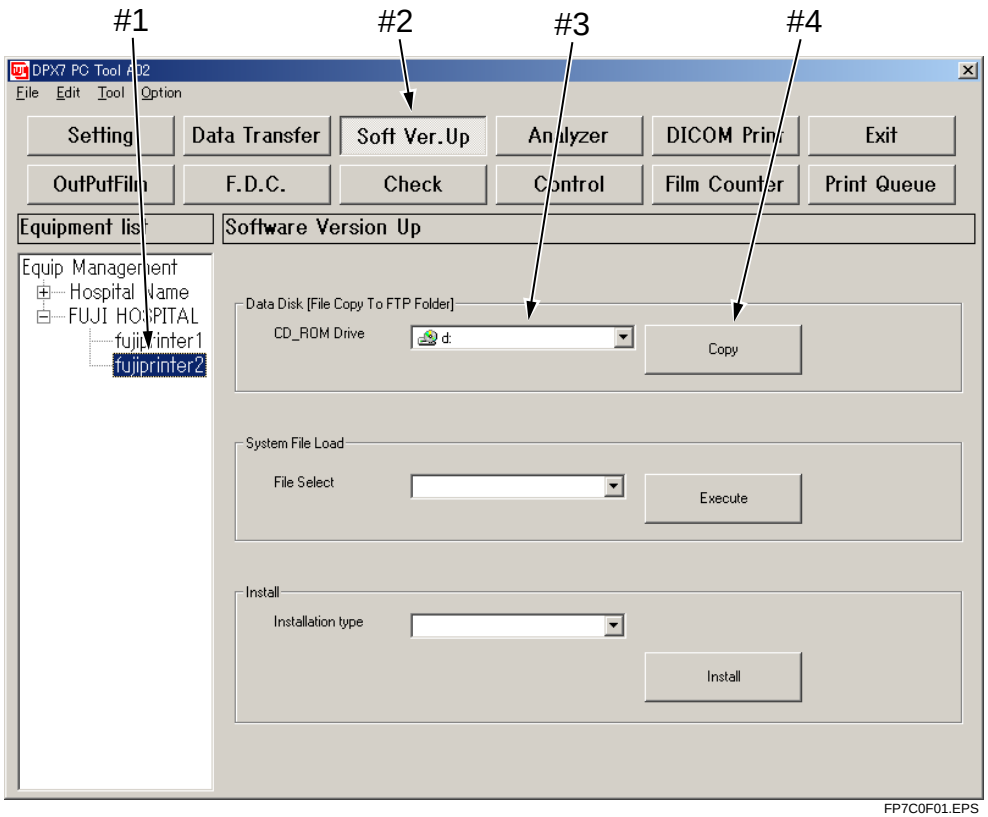


FP7C0F07.EPS

■ Full Installation Procedure

(1) Insert the latest main unit software CD-R in the CD-ROM drive of the PC for servicing, and copy the main unit software to the FTP folder of the PC for servicing.

"Printer name" → [Soft Ver.UP] → "CD-ROM drive" → [Copy]

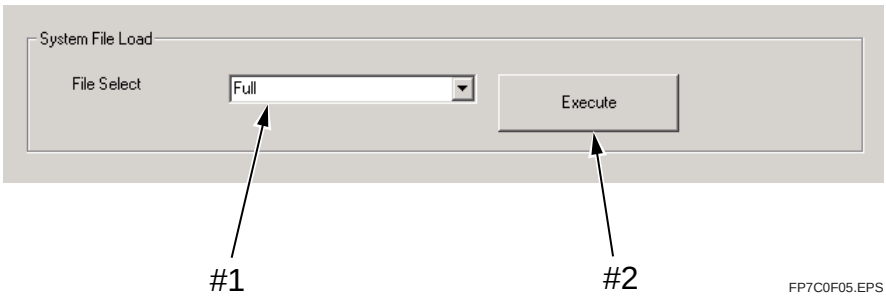


FP7C0F01.EPS

→ The main unit software is copied to the FTP folder of the PC for servicing. When completed, [File Copy Finish!!] screen appears.

(2) Write the main unit software in the HD of the equipment from the PC for servicing (FTP folder).

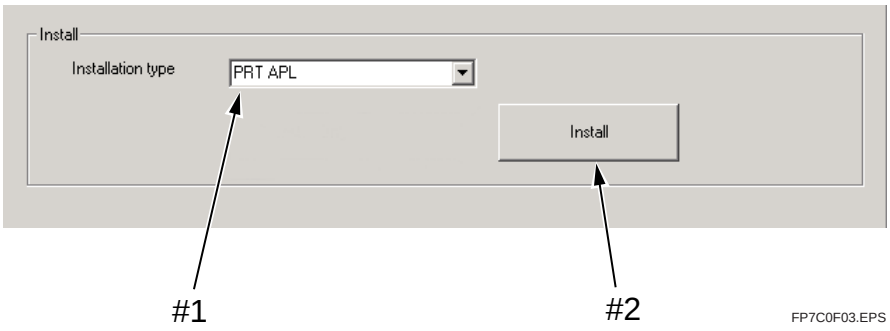
[Full] → [Execute]



→ The main unit software is installed in the equipment.
When installation completed, the [System File Load Finish!!] screen appears.

(3) Of the software written in the HD of the equipment, write the printer application program in the MCT board.

[PRT APL] → [Install]



→ The printer application program in the HD is installed in the MCT board.
When installation completed, the [Software Install Finish!!] screen appears.

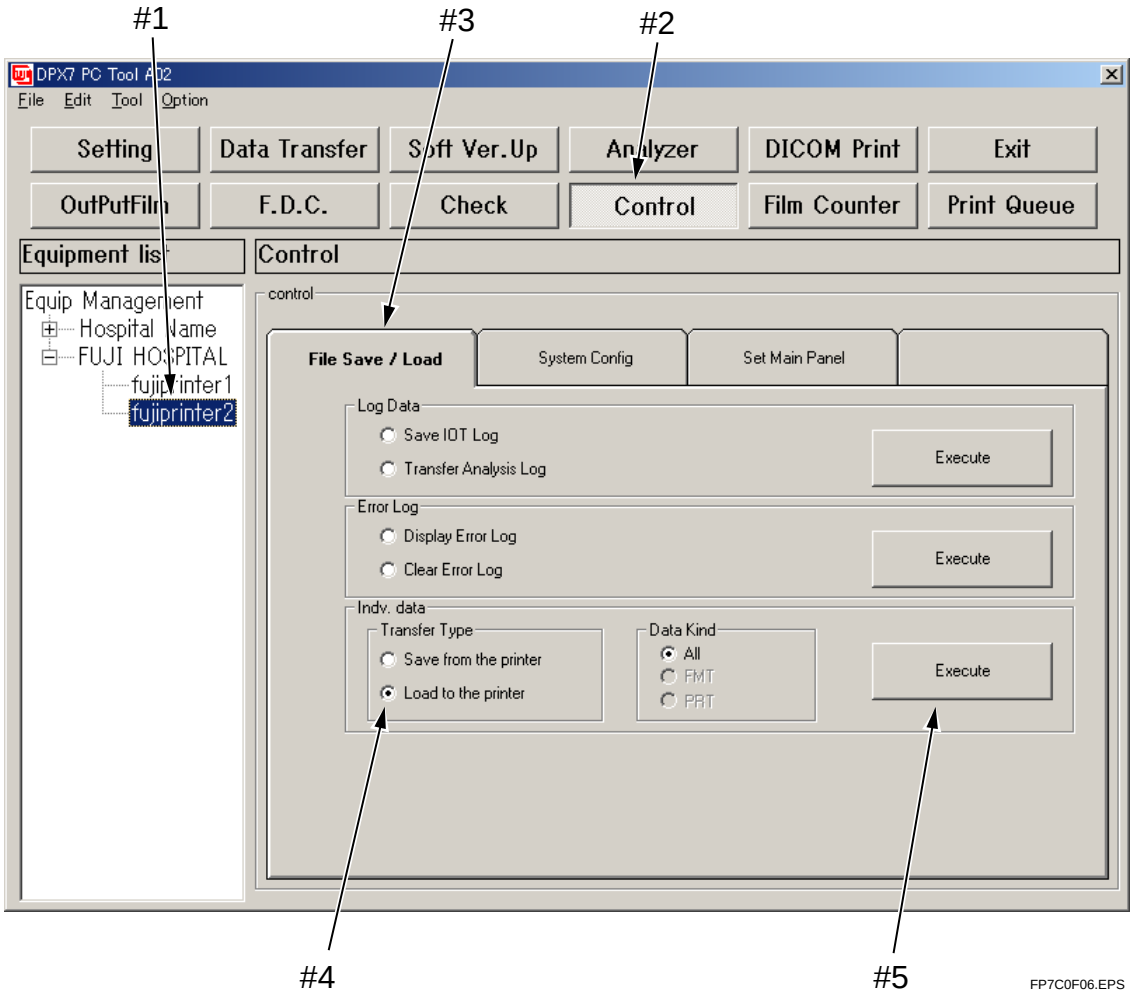
(4) Install the individual data.

<INSTRUCTIONS>

The individual data needs to be installed if full installation has been performed. To install, use the latest individual data of the corresponding printer saved in the PC for servicing.

● Installing the Individual Data in the PC for Servicing

(i) "Printer name" → [Control] → [File Save/Load] → [Load to the printer] → [Execute]

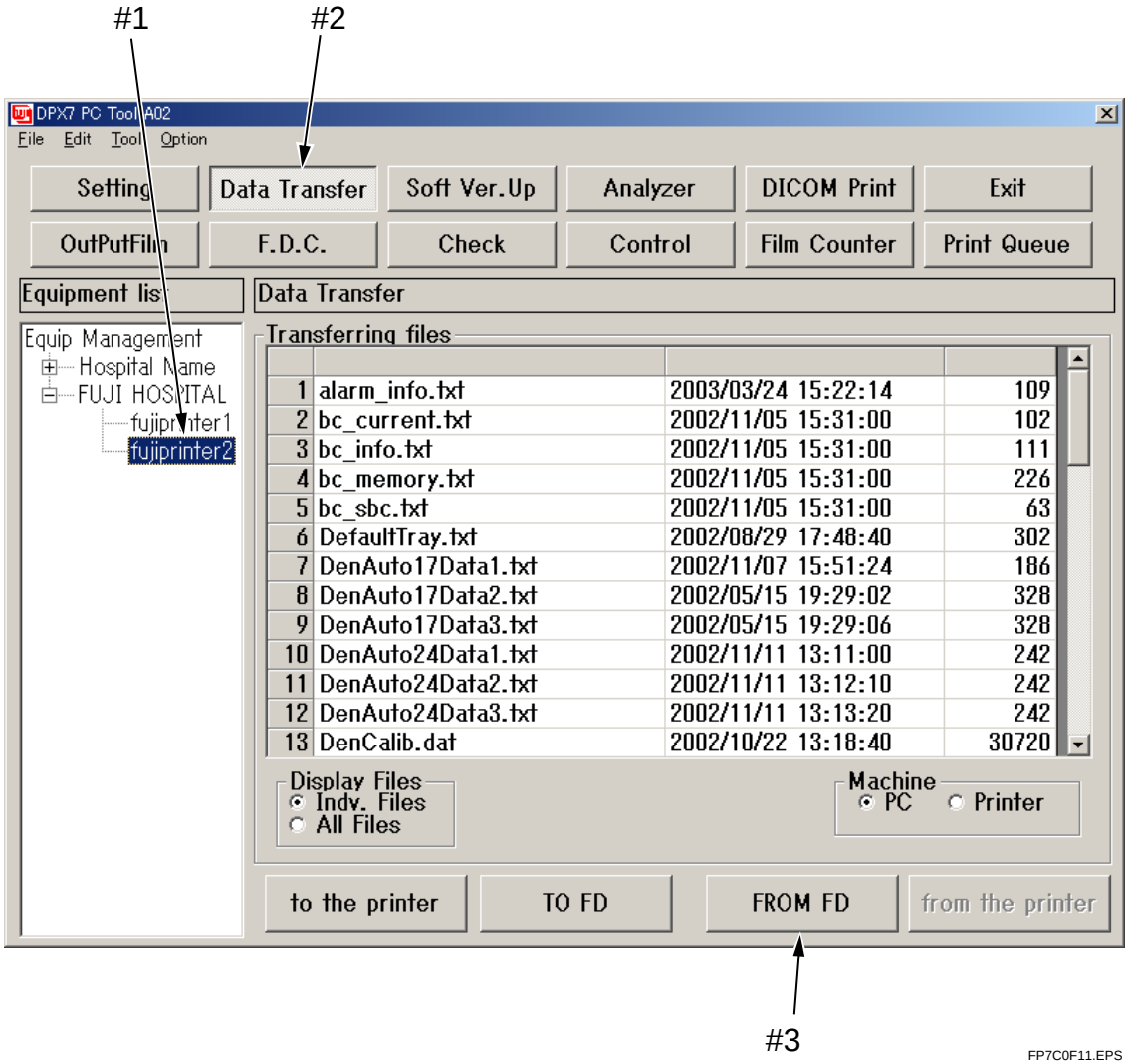


→ The individual data in the PC for servicing is sent to the equipment.
When the data transfer is completed, the [File transfer is completed.] screen appears.

● When Installing the Individual Data Saved on FD

(i) Insert the FD with the latest individual data in the FDD of the PC for servicing.

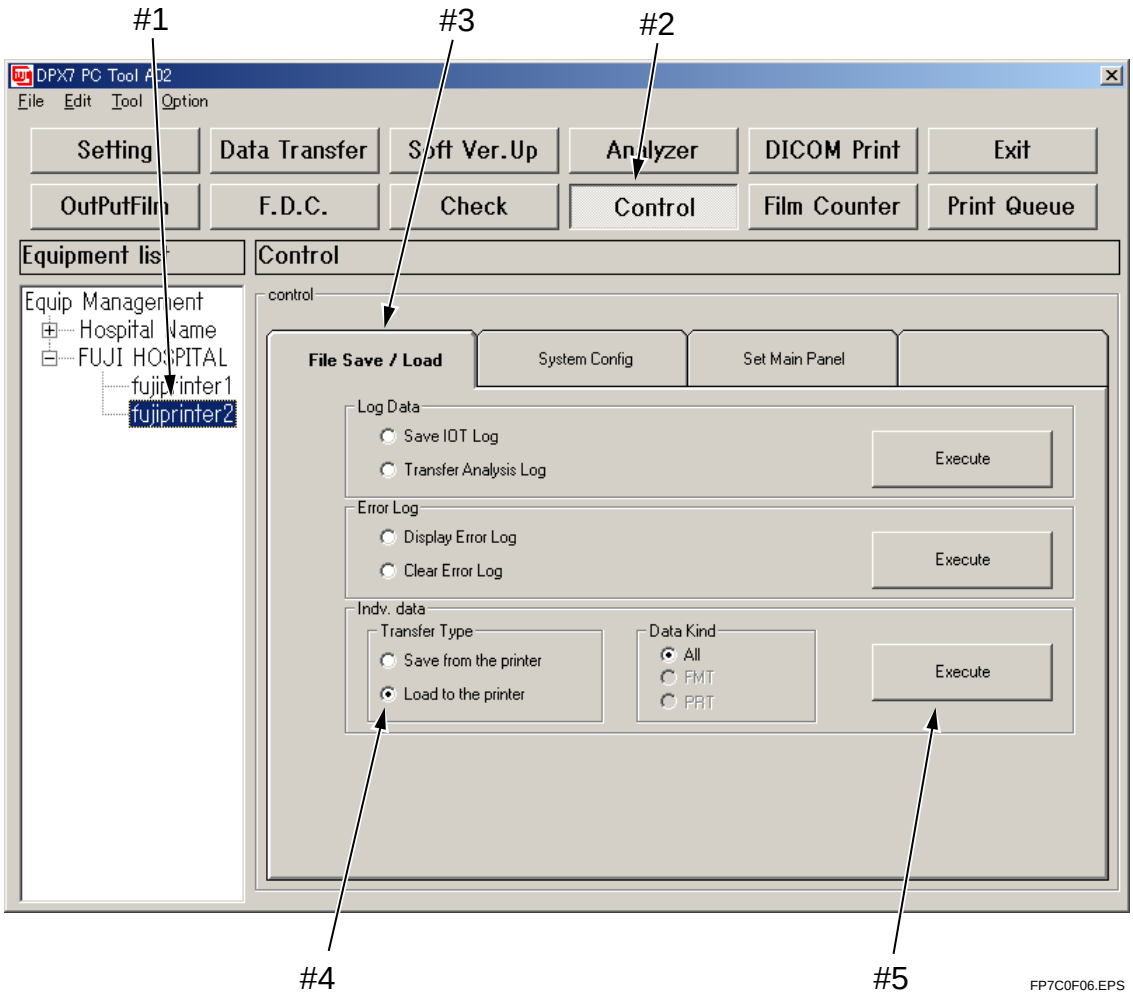
(ii) Copy the individual data saved on FD to the PC for servicing.
"Printer name" → [Data Transfer] → [FROM FD]



→ The individual data is copied to the PC for servicing.
When the data copy is completed, the [FD File transfer is completed.] screen appears.

(iii) Install the individual data in the equipment.

"Printer name" → [Control] → [File Save/Load] → [Load to the printer] → [Execute]



→ The copied individual data in the PC for servicing is sent to the equipment. When the data transfer is completed, [File transfer is completed.] screen appears

(5) Set the system date and time.

"Printer name" → [Control] → [System Config] → [Set Date/Time]

☞ "SERVICE MODE, [PC9-2-1] System Config"

(6) Set the film counter.

"Printer name" → [Control] → [System Config] → [Set Counters]

☞ "SERVICE MODE, [PC9-2-5] Set Counters"

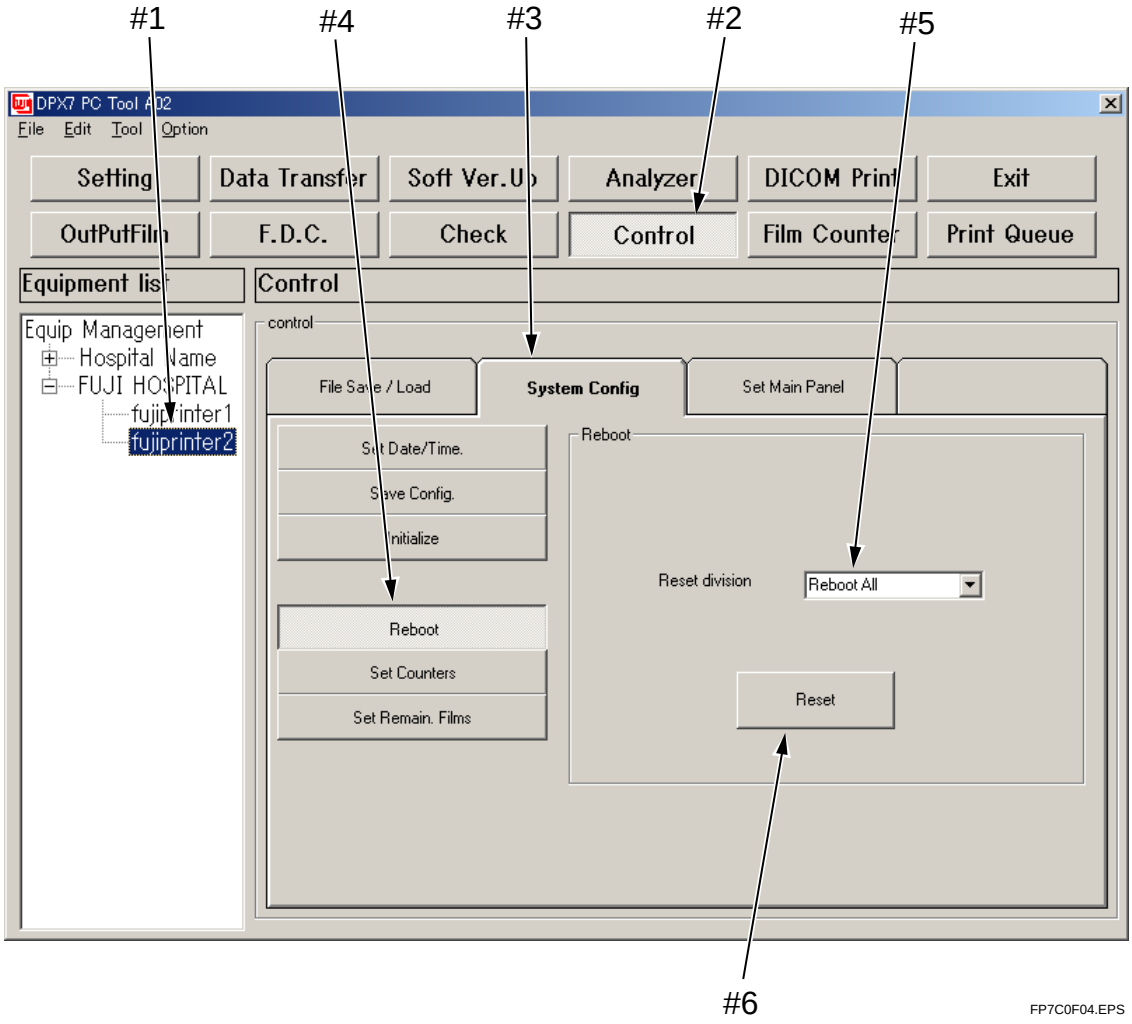
(7) Set the number of remaining films.

"Printer name" → [Control] → [System Config] → [Set Remain. Films]

☞ "SERVICE MODE, [PC9-2-6] Set Remain. Films"

(8) Reboot the equipment from the PC for servicing so that the changes made in the main unit software becomes effective.

"Printer name" → [Control] → [System Config] → [Reboot] → [Reboot All] → [Reset]



→ The equipment reboots.

<REMARKS>

The main unit software is replaced with that fully installed after the equipment is rebooted.

(9) Click [Exit] and shutdown the DPX7 PC Tool.

(10) Remove the CD-R and FD from the PC for servicing.

(11) Shutdown the PC for servicing.

(12) Disconnect the network cable of the PC for servicing from the network to which the equipment is connected.